Climatological Data for September, 1909. DISTRICT No. 7, LOWER MISSISSIPPI VALLEY.

ISAAC M. CLINE, District Editor.

GENERAL SUMMARY.

The weather during the first half of the month was warm in all portions of the district. There was an unusually warm period at the opening of the month over the western portion of the district on the 1st and 2d, and over the eastern portion on the 2d and 3d. A change to much colder took place about the 13th in the western and the 14th in the eastern portion of the district, and cool weather continued until the close of the month. The mean temperature was about normal or above, except over the western portion of the immediate Mississippi Valley and the mountainous portions of Colorado and New Mexico. Monthly mean temperatures and departures from the normal for the various States are reported as follows: Missouri area, 69.8°, -0.4°; Kansas area, 71.7°, +1.8°; Colorado area, 59.2°, -1.4°; New Mexico area, 62.6°, -2.4°; Texas area, 73.7°, +1.6°; Oklahoma, 74.5°, +1.3°; Arkansas, 74.7°, +1.5°; Tennessee area, 71.3°, -0.7°; Mississippi area, 75.2°, +0.1°; Louisiana, 77.5°; +0.2°.

The precipitation over Oklahoma and the Kansas, Colorado,

New Mexico, and Texas areas occurred generally during the first half, and very little precipitation occurred during the latter half of the month. Over the eastern portion of the district, showers occurred during the first half of the month and there were general heavy rains on the 20th-21st during the passage northward of the tropical hurricane. The precipitation was above the normal over the extreme eastern and western portions of the district; elsewhere, there was a deficiency, except in scattered localities. Monthly average amounts, with departures from the normal, for the various States and parts of States, are reported as follows: Missouri area, 4 inches, +0.54 inch; Kansas area, 1.91 inches, -1 inch; Colorado area, 3.34 inches, +2.28 inches; New Mexico area, 2.94 inches, +2.21inches; Texas area, 0.77 inch, -1.71 inches; Oklahoma, 1.17inches, -1.88 inches; Arkansas, 2.84 inches, -0.77 inch; Tennessee area, 4.32 inches, +1.28 inches; Mississippi area, 4.12 inches, +1.34 inches; Louisiana, 4.97 inches, +1.21 inches. TEMPERATURE.

The mean temperature was about normal, or above, over Oklahoma, the Mississippi, Tennessee, Kentucky, Kansas, and Texas areas, and the Missouri area, except in the central portion, and was below the normal elsewhere. The greatest excess in temperature, amounting to more than 3°, occurred over northeastern Oklahoma and northwestern Arkansas and the southeastern portion of the Kansas and the southwestern portion of the Missouri areas; elsewhere, the excess ranged from 0.3° to 2.7°. Over those portions of the district where the mean temperature was below the normal, the departures ranged from 2.1° in the Colorado area to 0.1° in that portion of Louisiana

lying to the north of Lake Pontchartrain.

The highest monthly mean temperature was 81.4°, at Liberty Hill, Bienville Parish, La., and the lowest was 44.0°, at Lake Moraine, El Paso County, Colo. The maximum temperature for the month was above 95° throughout the district, except in the mountainous portions of the Colorado and New Mexico areas. The monthly maximum reached, or exceeded, 100° at some stations in each State in the district, and in Oklahoma, Arkansas, Louisiana, and the Texas area the maximum was above 100° at practically all stations. The highest temperature recorded in the district was 107° at Ashland, Clark County, Kans., Chickasha, Grady County, and Muskogee, Muskogee County, Okla. Maximum temperatures of 106° were recorded at a number of stations in Kansas, Oklahoma, Arkansas, and the Texas areas. The average of the daily maximums exceeded 90° in portions of Oklahoma, Arkansas, Louisana, and

the Kansas and Texas areas. The monthly maximum temperatures occurred generally from the 1st to 3d, although in some scattered localities the maximum occurred as late as the 12th.

The monthly minimums occurred generally during the last decade, and were recorded at a majority of stations in the western portion of the district on the 22d or 23d, and in the eastern portion on the 27th or 28th. The lowest temperature recorded, 14°, occurred at Elizabethtown, Colfax County, N. Mex. Minimum temperatures of 40°, or lower, were recorded at some stations in all parts of the district, and minimums below 32° were recorded over some localities in Oklahoma and Arkansas and in the Colorado, Kansas, and Missouri areas. Killing frost occurred in the mountainous portions of Colorado and New Mexico on several dates, and in Boone and Clark counties, Ark., on the 28th. Light frost occurred on the 27th, 28th, or 29th in portions of Oklahoma and Arkansas, and the Kansas, Missouri, and Texas areas. The percentage of sunshine during the month was somewhat above the seasonal average.

PRECIPITATION BY DRAINAGE AREAS.

Arkansas River and tributaries. — Heavy precipitation occurred over the headwaters of the Arkansas, in Colorado, where the amounts ranged from 1.34 inches at Holly, in the plains portion, to 7.47 inches at Santa Clara near the headwaters of the Cuchara River in the elevated portion of the Colorado area and the average was 3.4 inches, being about 2.3 inches in excess of the September normal. From the Colorado line eastward to the ninety-seventh meridian, the precipitation in the Valley of the Arkansas proper, ranged generally, between 1.5 and 3 inches, the average being about 2 inches, which is about 0.3 inch below the normal. One station, Ellinwood, Kans., reported 5.70 inches and six stations reported less than 1 inch. Except in a few widely scattered localities, dry weather prevailed throughout the Cimarron Valley, the rainfall ranged from 0.40 inch to 4.05 inches, and the average for the valley was about 1.5 inches. Three stations reported an excess, and all others reported a deficiency ranging generally from 1 to 2 inches, the average being about 1 inch. Generally heavy precipitation occurred over the headwaters of the Canadian in New Mexico, but elsewhere throughout the Canadian Valley the precipitation was light. Over the part of the valley in New Mexico, the precipitation ranged generally from 2 to 5 inches, and was from 1 to 2. inches above the normal. Over the stretches of the Canadian that lie in Texas and Oklahoma, the precipitation averaged about 1 inch, and there was a deficiency of about 2 inches. The rainfall was unevenly distributed over the Verdigris and Neosho valleys and that part of the Arkansas proper between the ninety-seventh meridian and the Arkansas line; the amounts ranged from 0.02 inch to 4.63 inches, the average being about 1.5 inches, about 2 inches below the normal. Over that portion of the Arkansas Basin, in Arkansas, the precipitation averaged 1.6 inches, and was 1.7 inches below the normal. The amount increased from 0.38 inch at Fort Smith to more than 3 inches near its junction with the Mississippi.

Red River and tributaries.—There was less than half an inch of precipitation generally over that portion of the Red River that lies in Texas and Oklahoma, except that moderately heavy amounts were recorded in the Texas Panhandle. The amounts ranged from a trace to 2.05 inches; averaged about 0.5 inch, and the deficiency was about 2 inches. Southward, in Arkansas and Louisiana, the precipitation increased from 0.48 inch to more than 3 inches and the departures from the normal ranged from a deficiency of 2.10 inches at Texarkana, Ark., to an excess of 0.69 inch at Alexandria, Louisiana.

Mississippi, South of St. Louis and small tributaries.—

Throughout this drainage area, the monthly amounts of precipitation were quite uniformly distributed, and ranged from 2.51 inches to 8.36 inches; the average was about 4 inches, or 0.5 inch above the normal. There was a general excess, exceeding 2 inches, at most stations in the immediate vicinity of the Mississippi. Over the Yazoo and Big Black valleys, the precipitation ranged from 2.51 inches to 5.79 inches, the average being 3.6 inches, or about 0.9 inch above the normal. In the Valley of the Ouachita the monthly amounts ranged from 0.84 inch near the headwaters in Arkansas to 4.33 inches at the mouth in Louisiana, the average being 2.54 inches. Over the headwaters of the Meramec and over the upper portion of the drainage basin of the White the precipitation was below the normal. There was a deficiency to the east of the headwaters of the Black, and over the greater portion of the Ouachita Basin.

Louisiana coastal plain.—The precipitation ranged from 4 to more than 10 inches over the eastern and middle portions, and from 2.94 inches at Jennings to 4.23 inches at Lake Charles in the western portion of the coastal plain. There was an excess, except at a few scattered stations, and at several stations the excess was between 4 and 6 inches. The rainfall was heavy but mostly occurred during the tropical storm of the 20th-21st, which passed inland between New Orleans and Morgan City.

Afull discussion of this storm is given elsewhere in the Review.

RIVERS.

The Arkansas and its tributaries remained low during the month, except that there were more moderate floods at the extreme headwaters of the Arkansas and the Canadian. The damage from flood waters was comparatively small in Colorado, but over the northern half of the New Mexico area nearly every locality reported local damages and delays in railroad traffic. The lowest stage at Fort Smith, Ark., was 1.4 feet on the 1st, the highest was 6.6 feet on the 13th, and at the close of the month the stage was 2.5 feet. The changes in the Arkansas were slight at Little Rock, where the stage was 1.3 feet at the opening and 1.1 feet at the close of the month. The lowest stage during the month was 1.0 foot on the 9th, and the highest was 3.5 feet on the 17th.

The Red River fell generally during the month, except that there were a few local rises. The stage at Arthur, Tex., was 6.2 feet at the opening of the month and the water fell slowly to 4.6 feet on the 23d and 24th, after which there was a rise to 5.6 feet on the 27th, and at the close of the month the stage was 4.8 feet. The range at Fulton, Ark., was from 6.5 feet on the 1st to 4.8 feet on the 27th to 29th. The range at Shreveport was from 2.1 feet on the 1st to -4.0 feet on the 30th. The changes at Alexandria were very slight, and the range was from 0.9 foot on the 4th and 7th to -0.2 foot on the 30th. The rivers and smaller streams in Oklahoma were low, except that there was a temporary rise in the South Canadian during the latter part of the first decade. The Ouachita remained nearly stationary at Camden, and at Monroe the range was from -0.5 foot on the 1st to -2.3 feet on the 27th.

The lower Mississippi changed very little, but there was a fall generally from St. Louis southward to the Gulf. highest stage from Memphis to Donaldsonville occurred at the opening of the month and the lowest on the 30th. Slight, but unimportant rises occurred on a few dates at New Orleans where the river oscillated to some extent as a result of wind tides. The highest stage was 7.8 feet on the 20th and the lowest 4.2 feet on the 30th.

NOTES.

As a result of the excessive precipitation in New Mexico during the first decade in September, the Canadian at Logan, N. Mex., rose on September 6 from 5 feet at noon to 25 feet at 6 p. m., and the crest of the flood was higher than 25 feet. The river carried more than 10,000 second-feet of water during the height of the flood.

The stages of the streams in Oklahoma were unusally low

during the month and this resulted in an inadequate water supply. The means of securing water for domestic purposes and fire protection was a serious problem in a number of the smaller cities. These conditions emphasize the necessity for action to provide for the conservation of the water supply in anticipation of such droughts.

River transportation was practically suspended on the Arkansas, the White, the Red, and the Ouachita rivers because of the

low stages of those streams.
"Hot winds" occurred in the southeastern counties of Kansas on September 3.

SPECIAL REPORT ON THE HURRICANE OF SEPTEMBER 20-21, 1909, ON THE LOUISIANA AND MISSISSIPPI COASTS.

The hurricane which moved northward over Louisiana and Mississippi, September 20-21, 1909, was of the greatest geographic extent and probably the most severe storm that has been experienced on the central Gulf coast.

WEATHER CONDITIONS AT NEW ORLEANS PRECEDING AND DURING THE HURRICANE.

September 18.—The pressure was quite uniform, ranging from 29.91 to 29.97 inches. The wind was light with the prevailing direction northeast until 5 p. m., and east, except for a short intervals, from that hour until midnight. The temperature averaged 4° above the normal and ranged from 76° to 88°. The day was partly cloudy with cirrus and cirro-stratus clouds moving from east or northeast during the greater part of the day, but occasionally from the north. Polar bands tinged with pink were observed at 7 p. m.

September 19.—Very little change in pressure conditions took place until the afternoon when the barometer began falling slowly; at 10 p. m. a more rapid fall set in. The temperature averaged 3° above the normal and ranged from 77° to 85°. The wind was steady from the northeast during the twenty-four hours, the velocity increased steadily from a light wind in the morning until noon, after which it blew generally at a rate of 18 to 20 miles per hour, the maximum velocity being at the rate of 28 miles per hour from the northeast at 12.55 p.m. Cirrostratus clouds prevailed during the forenoon with some cumulus and alto-stratus during the afternoon. Rain fell at intervals commencing at 4:55 p.m. About sunset the clouds were tinged with a brilliant carmine glow lasting from 5:50 to 6:30 p.m.,

being most pronounced at 6:10 p.m.

September 20.—The barometer fell at a steady and uniform rate from 29.80 at midnight of the 19th to 29.63 at 10 a.m., after which the decrease in pressure was more pronounced and was at a uniform rate of nearly one-tenth of an inch in two hours until 7 p. m. when the lowest reading, 29.23 inches, was recorded. The lowest temperature during the day, 74°, occurred at 1 p. m., and the highest recorded during the twenty-four hours was 79°. The wind was from the northeast until 8 a.m., coming in sudden gusts ranging in velocity from 22 to 42 miles per hour, a rate of more than 30 miles per hour being recorded in some five-minute period of every hour after 1 a.m. From 8 to 9 a.m., the wind blew from all directions, not continuously from any one direction during a period of five minutes; during this hour the wind lulled and the velocity was uniformly about 16 miles per hour. From 9 to 10 a.m., the wind blew steadily from the northeast and the velocity nearly doubled over that of the preceding hour with a maximum at the rate of 40 miles per hour at 9:53 a.m. From 10 a.m. until noon the wind was variable blowing from all directions not remaining from any one direction during a period of more than five minutes. wind lulled again during this time and the velocity ranged from 12 to 24 miles per hour. From 12 noon until 3 p. m. the wind oscillated between northeast and southeast, being mostly east, and the hourly wind velocity ranged from 25 to 33 miles per hour, the maximum for five minute periods being for each hour at the rate of 31, 37, and 40 miles, respectively. From 3 to 4 p. m., the wind was mostly from the east, but occasionally from

the southeast with increasing velocity, the total movement for the hour being 39 miles with a five-minute maximum at the rate of 46 miles per hour. From 4 until 5:20 p.m., the wind veered toward the southeast after which it remained steady from the southeast until 10:45 p.m., when it veered to the south. The wind velocity increased as the wind settled into the southeast, with an hourly movement from 4 to 5 p.m. of 45 miles, and for a five-minute period it was at the rate of 58 miles per hour; from 5 to 6 p. m the hourly movement was 49 miles and the maximum for five minutes was at the rate of 62 miles per hour; from 6 to 7 p. m., the hourly movement was 55 miles and the maximum for five minutes was at the rate of 66 miles, this being 6 miles greater than the highest wind previously recorded at New Orleans. After 7 p.m the wind subsided slowly, but storm velocities occurred at intervals until about midnight. The wind was freaky, blowing at all times during the day in sudden powerful gusts or blasts limited to narrow areas and requiring but a few seconds of time in passing a given place. These sudden gusts or blasts were of much greater velocity than the highest five-minute record. Low, heavy clouds, from which rain fell incessantly, moved rapidly from the northeast during the forenoon and from the east and southeast during the afternoon. The rainfall was heaviest from 12 noon to 1 p.m., when 1 inch fell, there being no other hour during the day with onethird that amount.

September 21 was clear and pleasant, with light wind from the south.

EFFECTS OF THE HURRICANE.

The center of the hurricane moved inland between the mouth of the Mississippi and the Atchafalaya rivers, as forecast by the Weather Bureau. The wind at Morgan City backed from the northwest, by the west, to the south, while at New Orleans it veered from the northeast, by the east, to the south. The center of the disturbance moved northward over eastern Louisiana, passing about halfway between New Orleans and Morgan City. Excessively high tides occurred in the eastern segment of the hurricane, flooding all the lowlands on the middle Gulf coast to a depth ranging from 2 to 10 feet. At New Orleans the back water in the river, as a result of the storm tide, was 4 feet on the afternoon of the 20th. The storm winds carried the water from the Gulf of Mexico northward, east of the Mississippi River over Breton Sound, eastern Plaquemines, St. Bernard, and Orleans parishes into Lake Pontchartrain, giving the highest tide water ever known in those sections. Reports from the north shore of Lake Pontchartrain indicate that the tide had risen 4 feet up to 7 p.m. on the 20th, when it remained stationary for nearly an hour. From 8 to 10 p.m. there was a storm wave of 3 feet, making a total tide in that section of 7 feet. The water commenced receding about midnight. A break in the protection levee on Bayou St. John near the Dumaine Street Bridge allowed the water from Lake Pontchartrain to flow through and flood a large area, in the western portion of New Orleans, to a depth ranging from 1 to 2 feet. The highest storm tide occurred between the mouth of the Mississippi River and the Mississippi Sound, about 50 miles east of the storm center. The occurrence of the highest tide in this part of the storm and so far from the center was, no doubt, due to the fact that the storm was moving northwest until it reached the Louisiana coast, and then curved more to the northward. Reports from Grand Isle, which was near the center of the storm, indicate a tide of about 4 feet in that section as the highest water on that island was but 2 feet. From the Atchafalaya River westward, the northerly winds held the tides down; however, the winds were high and dangerous as far west as Galveston, Tex.

Much damage resulted from the storm along the middle Gulf coast, and for some distance inland. At New Orleans five persons were killed either by falling chimneys or coming in contact with live wires broken by the wind, and the property damage is estimated at about \$1,000,000, the greater part of which was along the river front, mainly from the sinking of barges loaded with coal. Small craft were torn from their

moorings in harbors and suffered much damage.

More than half the coal fleet along the Mississippi River was sunk. The railroads suffered severe damage. The Louisville and Nashville Railroad lost 25 miles of track, and the bridges at Rigolets and at Bay St. Louis were partly destroyed. The Illinois Central Railroad lost 8 miles of double track and several bridges. Other roads suffered to some extent, but no reports of the extent of their damage has been received. Telephone and telegraph wires in all directions were prostrated, there being but one wire left in operation out of New Orleans, a telephone line to Hattiesburg, Miss. The wireless towers were The Western Union Telegraph Company all blown down. opened a wire by the way of Dallas, Tex., on the 22d and this was followed by other wires on the 23d and 24th, and on the 25th a good telegraph service was restored. The damage suffered by the railroad, telegraph, and telephone companies will probably exceed \$1,000,000. Many towns for some distances inland suffered heavy damage. Agricultural interests in Louisiana suffered less than was at first anticipated, and the damage to crops will probably not far exceed \$1,000,000. The total damage in Louisiana and Mississippi is estimated at about \$5,000,000. Nearly 200 persons are known to have perished in Terrebonne Parish and about 50 deaths occurred as a result of the storm in other portions of Louisiana and Mississippi. The exact loss of life will never be known, but a conservative estimate places the total number of deaths at about 350. Nearly 4,000 people were rendered homeless the bulk of these being in Terrebonne Parish. The coast region of Terrebonne Parish is cut up by numerous bayous, and 2,600 or 3,000 fishermen live along these sluggish streams. Houma is the nearest telephone exchange, and people living several miles south of that place are without rapid means of communication and could not be reached by warnings.

When it is taken into consideration that dangerous winds occurred from Tampa, Fla., on the east to Galveston, Tex., on the west, over a long stretch of low coast, and at New Orleans the wind velocity exceeded all previous storms, the small loss of life is phenomenal when compared with that resulting from previous storms in this section. It is a notable fact that no loss of life resulted from drowning in the neighborhood of the stormwarning display stations of the Weather Bureau, which establishes the fact that the warnings were effectual in the saving of life. Four-fifths of the deaths that resulted from the storm occurred in a portion of Terrebonne Parish that could not be reached with the warnings, and many of the remaining number resulted indirectly from the storm in a manner that no warnings could have prevented their occurrence. Under the guidance of the warnings of the Weather Bureau, all of the small craft that could be reached had sought harbors and prepared to weather the storm. The coal fleet anchored along the banks of the Mississippi kept up steam commencing Saturday night and they were advised Sunday, in conversation over the telephone, to keep in readiness for the storm. About half the fleet was sunk, but the remaining half was saved as a direct result of the action taken on the advice of the Bureau. No loss of life occurred on the high seas, because all the craft not strong enough to weather severe storms heeded the warnings and remained in port. The only casuality reported was that of the steamer Utstein, which was stranded in 7 feet of water just west of the Ship Shoal lighthouse. The Utstein was bound from Spanish Honduras for New Orleans with a cargo of fruit. None of the crew was lost. There was some loss of life on small craft that had sought refuge in the bays and bayous, but these people had sought what they deemed safe harbors. It is not possible to estimate to what extent lives and property were saved as a result of the warnings, but judging from action taken

it can safely be said that the number of lives and the amount of property saved greatly exceed the losses.

COMMENTS ON WORK OF WEATHER BUREAU.

The following comments on the warnings have been received: The Daily Picayune, New Orleans, La., September 22, 1909,

It must be said to the credit of the Weather Bureau that the excellent work done has proven of incalculable benefit to life and property by the issuance of timely warnings of the storm. On Wednesday of last week the Weather Bureau began to give out bulletins as to the location of the tropical hurricane and its probable trend, and this warning note never ceased from day to day until the crucial moment, Monday morning, when the definite warning was issued, telling about the very near approach of the disturbance threatening south Louisiana and probably having some sinister design upon the city of New Orleans. The storm reached this city about the time foreforecasted by the Weather Bureau, and it lasted until nearly midnight Monday.

In commenting editorially on the storm, the Daily Picayune of September 25, 1909, says:

The admirable arrangements made by the weather service insures ample warning of the approach of these West Indian storms, but there is little that can be done to protect property from their ravages. That the timely warn-

ings save many lives is, however, undoubted, and were the people who live in exposed stretches of the coast to pay greater attention to these warnings the loss of life would be still more reduced. Sailors who go to sea carefully note the weather predictions and are guided thereby, whereas the people living on the low-lying coast, who have actually more to fear than the sailors, usually pay less heed to the storm predictions.

The following extracts from letters received convey the general tenor of public feeling toward the work performed by the Bureau:

Morgan City, La., September 24, 1909. The storm warnings were timely and were the means of saving life and property. Boatmen who were prepared to sail were advised and took timely warning, thus being able to save their property M. COGUENHEM. (Signed)

NEW ORLEANS, La., September 22, 1909.

We write to express our appreciation for the excellent and courteous service which your office furnished to us during the uncertain hours of the recent storm. We feel that your office was solely instrumental in saving to New Orleans, through advices sent out by you in advance, many lives and thousands of dollars worth of property.

We can doubly assure you that many people in New Orleans were given encouragement throughout the height of the storm by information given

out during its fury.

(Signed) CASTELL & TREFNEY.

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| ll Ranchack Lake | San Miguel Colfax | 4,500 8,348 | 5 | 67.6 | | 98 | 2 | 37 | 27 50 | 3.20 2.37 | | 1.71 1.61 | 0.0 | 8 6 6 | 21 20 | 8 7 | | ew. | Miss Juanita Lucero. C. M. O'Donel. Ralph T. Martines. Agt. E. P. & S. W. Ry. |
| mpana | San Migueldo | | | | | | | · • • • • • • | | 2.69 | | 0.87 | 0.0 | 6 | 19 17 | 7 10 | 3 | se. nw. | Do. |
| marron (near) | MoraColfax | 9.000 6,3% | 4 | 59.1 | • • • • • • • • • • • • • • • • • • • | 86 | ii | 32 37 | 23 43 23 34 | 1.06 3.74 | | 3.26 | 2.2 0.0 | 3 7 | 20 17 | 7 | 6 | w. se. | Alfred Lucero. Wm. French. |
| sytonervo | Colfax | 5, 178 4 849 | | 65.0 | | | 1 | 37 : | | 2.06 1.14 | | | 0.0 | 3 7 | 22 | 7 | ! . | nw. | Dr. W. W. Chilton. Agt. E. P. & S. W. Ry. |
| a.w/801a | do | 6,000 | 8 | | | | | | ! | 2.30 | | 2.20 | 0.0 | | 18 | 4 | وأحيمه | | Do. Geo T. Lambert. |
| rt Union | Mora | 6, 835 | 40 | | - 5.0 | 85 i | 2 2 | 26 | 22 52 23 48 | 0.99 3.37 | + 1.03 | 1.45 | T. 0.0 | 6 | 20 22 | 6 | 2 : | w. sw. | M. C. Needham. |
| aydenke Alice | UnionColfaxQuay | 7, 160 | | 66.2 | | 91 | 9 | | 22† 40 | 4.03 | | 1.00 | 0.0 | 3 6 | 21 | 5 | ' . | se. | George L. Cook. Raton Water Co. |
| s Alamos | San Miguel | 6, 789 | 5 | | | 98 | 1† | ' . | 28 , 52 | 2.43 2.56 | | | 0.0 | 5 4 | 22 | | | s. | John B. Reneau. Wm. Frank, sr. |
| rwell (near) | Curry | 4,400 | 1 | 66.8 | | 92 | 2+ | 35 | 28 48 | 3.55 2.11 | | 0.90 | 0.0 | 7 4 | 25 | 2 | 3 | sw. | D. N. Jackson. Dr. F. A. White. |
| ami Ranchntoya | ColfaxQuay | 4.335 | | | · · · · · · · · · · · · · · · · · · · | | | . | | 2.13 | | 1.46 | 0.0 | 5 · 4 6 | 17 27 | 10 0 | 3 | w. s. | Farmers' Devel. Co. Agt. E. P. & S. W. Ry. |
| tor | Colfax | 6,660 | 12 | 60.0 | - 1.2 | 88 | 3 1† 1 | | 23 41 | 6.30 | + 4.49 | 2.40 | 0.0 0.0 0.0 | 10 4 | 21 21 17 | 6 8 9 | 1 | s. W. | Willard Belknap. Prof. R. C. Crum. |
| ciadoy | San Miguel Mora Quay | 5.884 | | | • | | | | . . . | 5.26 1.94 | | 4.06 | 0.0 | 5 | 14 24 | 0 | 6 | w, sw. | Chas. F. Rudolph. Agt. E. P. & S. W. Ry. Jessie T. White. |
| a Jon | Morado | 5 622 | 3 | 63. 2 | | 91 | 2 | | 23 41 | 4.15 | | 2.30 | 0.0 | 6 | 22 15 | 2 4 13 | 4 . | 8. 8. | F. M. Hughes. Agt. E. P. & S. W. Ry. |
| ringer | Colfaxdo | 5, 857 | 14 | 60.2* | | 90= | | | 3† 50= | 2.50 | | 1.80 | 0.0 | 4 5 | 21 20 | 7 5 | 2. | se. | Agt. A. T. & S. F. Ry. Agt. E. P. & S. W. Ry. |
| ylorementinaeumcari (1) | San MiguelQuay | | 2 . | | | 97 | | 40 | 23 42 | 5. 67 0. 85 | | 3.80 | 0.0 | 6 | 18 25 | 11 5 | 1 | 8. | Miss Alice Blake. John F. Seaman. |
| cumcari (2)rmejo Park | do | 4.194 | | 56.4 | | 81. | ٠ | | 8 46 | | | 0.39 | 0.0 | 5 5 | 20 13 | 9 10 | 1: | sw. w. | Agt. E. P. & S. W. Ry. H. W. Adams. |
| agon Mound (near) | Mora | 6,300 | | | | 89 | 2 | | | 2.31 | | 1.49 | 0.0 | 4 | íğ ļ | 4 , | | | Guy L. Barnes. |
| narillothur. | Potter | 3, 676 590 | 17 | 69.4 | + 1.7 | 95 | 2 | 45 | 23 40 | 2. 19 0. 99 | - 0.17 - 1.49 | | 0.0 | 4 3 | 18 | 11 | 1 | s. | U. S. Weather Bureau. J. H. Hodnett. |
| onhamanadian | Fannin | 566 | 6 | 77.2 | | | 10+ | 34 | 8 50 | T. | | | 0.0 | | 19 | ii | Ö | | B. S. Lovelace. C. M. Vance. |
| nanning | Hartley Childress | | 4 16 | 75.8 | + 3.0 | 103 | | 50 . 5 | 3 39 c | 1.04 | - i. 6i | 0.67 | 0.0 | | 226 | 10 | 40 | | C. F. Land Inv. Co. W. E. Davis. |
| nillicothearendon | Hardeman | 1 406 i | | 72.2 | | 100 | | | 8 44 | 0.26 | | 0.18 | 0.0 | 2 : 1 | 19 | - 1 | | 80. | A. B. Conner. J. B. McClelland. |
| arkesvilleaude | Red River | 442 | 4 | 80.5 | | 105 | | 45 3 | 0 41 | T. | | T. | 0. 0 0. 0 | | 23 | 7 | ŏ . | | J. W. O'Neill. |
| albart | DallamGrayson | 3,998 | 1 | 65.8 | | 98* | | | | 2. 12 0. 38 | | 0.81 0.38 | 0.0 | 7 | 19 | | 2 | 8. | Agt. F. W. & D. C. Ry. F. L. Kennard. Wm. S. Faires. |
| enriettaereford | Clay Deaf Smith | 915 3,750 | 14 | 77.3 67.6 | 0.0 | 102 96 | 11 | | 9 60 7 50 | | - 2,20 | 0.28 | 0.0 0.0 | 1 | 28 22 | 8 | 2 ' | 8. 8. | C. K. Brown. A. C. Elliott. |
| lgginscLean | LipscombGray | 2,760 | 2 | : <i>::</i> ::: | | | | | | | | . . | | | :::: | | | | L. D. Shaw. W. R. Patterson. |
| emphisiami | Hall Roberts | 2,067 2,743 | 4 3 | 75.6 72.8 | | 99 102 | 1† 2 | 45 2 41 2 | 4 42 3 44 | 0.88 1.76 | | 0.88 0.93 | 0.0 0.0 | 1 3 | 26 22 | 7 | 0 | 8. | Agt. Ft. W. & D. C. Ry. Jerome Harris. |
| obeetie | Wheeler | | | . <i>.</i> | | | | ! | | | | | ,, | | 23- | | | | R. A. Choate. P. A. Kalein. |

Table 1.—Climatological data for September, 1909. District No. 7—Continued.

| | TABL | E 1.—-(| Cum | агогод | cal dat | a for | Sepi | ember | r, 19 | 09. | Dis | trict No | . 7—(| Jonti | nue | 1 | | | | |
|--|--|---|--|---|---|--|---|--|---|--|--|---|--|--|---|--|--|---|---|--|
| | | | yrs. | Tem | perature | , in de | grees | Fahr | enhe | it. | Prec | ipitation | , in in | ches. | y days, ore. | | Sky. | | lon. | |
| Stations. | Counties. | Elevation, feet. | Length of record, | Mean. | Departure from the normal. | Highest. | Date. | Lowest. | Date. | Greatest dally range. | Total. | Departure from the normal. | Greatest in 24 hours. | Total snowfall unmelted. | i a ci | Number of clear days. | Number of part- ly cloudy days. | Number of cloudy days. | Prevailing wind direction. | Observers. |
| Texas-Cont'd. | | | | | | | | | | | | İ | Ì ! | | | | | | | ~ |
| Ochiltree. Pampa. Pampa. Plemons. Quanah. Sherman. Sulphur Springs. Tulia. Wichits Falls. Kansas. | Grayson | 3,226 592 1,563 745 530 4,694 3,501 958 | 20 2 4 16 17 4 11 4 | 78. 2 79. 2 70. 2 | + 2.7 + 0.7 + 1.3 | 97 106 100 101 100 103 102 | 1† 11 2 10 10† 10 9 | 40 46 35 46 50 41 37 | 15† 28† 23 27† 28 28 | 45 45 53 36 31 40 | 1. 14 T. 0. 90 0. 61 | - 2.24 - 2.08 | 0.50 0.38 0.36 0.61 T. 0.90 0.54 0.60 0.50 | 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 | 3 3 2 5 0 1 2 1 | 20 22 27 23 20 15 22 | 3 8 0 6 9 | 7 0 3 1 1 0 8 | s. s. s. s. | S. T. Allen. B. E. Finley. N. O. Enloe. C. S. Solomon. E. E. Miller. R. A. Gibbs. W. B. Baxter. Agt. Ft. W. & D. C. Ry Lou Mulhall, J. B. Nitcholson. R. H. Beebe. |
| FargoFredoniaGarden CityGreat BendGreensburgGreensburg | Lyon. Greenwooddo Seward. Wilson. Finney. Barton. Kiowa. Elkdo. Stevens. Reno. Montgomery. Allen. Hodgeman. Kingman. Rush. | 1,951 1,010 2,7090 8,983 3,346 1,234 1,193 1,680 2,513 1,093 925 864 2,836 1,816 2,235 1,118 1,112 1,112 1,516 2,235 1,116 1,112 2,235 1,116 1,112 2,235 1,116 2,235 1,116 2,235 2,235 1,116 2,235 2,2 | 12 16 5 31 19 13 5 21 35 7 15 25 11 11 13 6 15 25 11 13 13 13 13 13 13 13 13 13 | 73. 4 73. 6 71. 6 73. 2 72. 8 72. 8 72. 8 71. 0 71. 0 71. 6 72. 7 71. 6 72. 7 71. 6 72. 7 71. 6 72. 7 71. 6 72. 7 71. 6 72. 7 71. 6 71. 6 | + 1.0 + 1.4 + 1.7 - 0.3 - + 2.6 + 2.0 + 3.5 + 3.5 + 0.2 - 1.3 + 1.5 + 1.9 | 104 107 100 105 97 103 103 99 96 105 100 100 101 99 105 100 101 99 100 102 99 99 105 | 3 2 11 11 2 2 12 13 3 1 11 11 11 3 3 3 3 | 357 364 344 317 319 320 336 445 320 336 344 408 336 337 341 348 349 349 349 349 349 349 349 349 349 349 | 28 227 228 228 227 228 227 228 227 228 227 228 227 228 227 228 227 228 227 228 227 228 227 228 227 228 227 228 227 228 228 | 490 543 442 443 443 444 444 444 445 445 445 445 445 | 2.57 1.40 1.20 2.164 1.53 3.70 0.88 8.109 3.70 0.98 1.150 1.20 3.17 1.20 1.20 1.50 1.50 1.50 1.50 1.50 1.50 1.50 1.5 | - 0.19 - 2.89 - 0.72 - 2.35 - 0.08 + 1.08 - 0.27 + 3.18 - 3.00 - 3.17 - 3.20 - 0.76 - 1.45 - 1.61 - 1.95 + 0.85 | 2.04 0.77 1.09 2.27 1.20 2.27 1.38 1.38 1.06 0.87 0.86 0.87 0.80 2.05 2.10 0.80 1.45 2.10 0.83 1.45 2.10 0.83 1.45 2.10 0.83 1.45 2.10 2.10 2.10 2.10 2.10 2.10 2.10 2.10 | 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 | 267111772273362210323345336321665562526 | 24 16 20 21 21 22 21 26 16 27 21 18 22 21 26 14 22 21 22 21 21 22 21 22 21 22 21 21 22 21 21 | 10 6 12 7 4 5 8 5 4 0 11 1 1 1 5 5 5 1 1 1 1 1 1 1 1 1 1 1 | 10232315543204131524 024837442341 | SW. S. | R. H. Beebe. C. W. Carson. A. W. Maxwell. Chase W. Brown. Fred Mallonee. J. L. Stanley. O. E. Skinner. W. R. Padley. E. B. Greene. Geo. W. Cleek, jr. W. H. Morton. U. S. Weather Bureau W. Y. Miller. Martin Musll. W. H. Boyles. T. C. Peffer. J. McDaniel, Frank Swink. B. W. Holmes. B. F. Stocks. J. A. Pritchard. C. C. Raymond. R. M. Lawyer. J. W. Eby. J. A. Firmin. E. S. Webster. J. M. Altaffer. J. M. Altaffer. U. S. Weather Bureau. James Alkin. B. B. Anawalt. Rodney Torrey. C. H. Longstreth. H. H. Wolcott. |
| Lebo | CoffeydoSeward | 1, 138 990 2, 843 2, 032 1, 495 1, 074 1, 310 1, 475 1, 480 1, 410 1, 092 2, 260 1, 454 1, 496 899 1, 950 1, 920 1, 930 1, | 25 26 19 8 15 16 12 4 12 12 12 13 18 14 12 12 12 12 13 18 14 12 12 12 13 13 13 13 13 13 13 13 14 13 14 14 15 16 17 17 18 18 18 18 18 18 18 18 18 18 18 18 18 | 70. 8 70. 8 70. 7 70. 7 72. 0 71. 5 ^d 70. 6 72. 2 74. 6 75. 0 70. 9 ^b 71. 2 72. 0 72. 8 68. 6° 74. 2 72. 5 | + 1.8 + 1.2 | 104 99 101 1006 106 101 102 103 104b 96 101 100 104 96 | 31 11† 2 3† 11 12 11† 3 3† 2 3† 4 3 1† 3 1† 3 3 1; 3 1; 3 3 1; 3 3 3 1; 4 3 3 3 4 4 4 3 3 3 4 4 4 3 3 4 4 4 4 | 40 39 41 40 31d 35 31 34 40 38 | 27† 27 28 23† 29 28 28 28 27 28 27 28 27 28 | 45 38 50 45 46 46 46 46 46 46 46 48 48 48 48 48 48 48 48 48 48 | 3. 17 1. 96 3. 34 1. 07 0. 64 1. 67 1. 77 1. 12 2. 40 1. 83 1. 70 0. 60 1. 42 | - 1.07 - 1.13 - 2.49 - 2.64 - 1.21 - 0.94 - 1.52 - 2.52 - 2.50 - 0.70 - 1.06 - 3.68 - 1.21 - 1.36 + 0.11 | 2.65 0.97 1.28 2.60 0.61 0.60 1.10 1.63 2.05 0.57 0.67 2.25 1.77 0.90 0.40 0.47 | 0.00 | 564544253 23 5439121333913339 | 19 18 21 20 18 17 16 14 21 18 24 25 16 21 22 23 23 23 23 | 10 7 2 3 4 8 11 16 8 11 0 13 8 4 4 4 4 0 0 5 5 1 1 3 8 4 1 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 1 3 | 577785001 16000112247740334 | sw. s. se. se. se. sw. se. se. sw. se. se. sw. se. se. sw. se. se. se. se. se. se. se. se. se. se | II. H. Wolcott. J. J. Bowman. F. W. Schmitt. R. T. Nichols. Mrs. Nella Poling. Ed. F. Haberlein. C. A. David. D. D. McIntosh. S. P. Garntson. M. L. Rickenbrode. H. N. Renfrew. J. E. McLeod. J. K. Barnd. C. F. Walden. N. I. Farris. Jas. M. Currigan. E. H. Ellsworth. D. M. Adams. A. Y. Buckles. M. A. Webb. T. W. Marshall. R. C. Harlan. U. S. Weather Bureau. M. B. Light. J. W. Tipton. Dr. J. P. McKinley. |
| Agache Arapaho Arapaho Ardmore Bartiesville Beaver Blackburn Blufalo Cache Calvin Chandler Chattanooga Chickasha Cloud Chief Dacoma Durant Eldorado* Enid Erick Fairland Fort Gibson Frederick Gage Guthrie Gaymon Hartahorne Hartahorne | Contotoc Coaddo Custer Coaddo Custer Caddo Custer Vashington Beaver Pawnee Harper Comanche Hughes Lincoln Comanche Grady Washita Woods Bryan Jackson Garfield Beckham Ottawa Muskogee Gillman Ellis Logan Texas Roger Mills Pttsburg Coarter Coarter Coarter Coarter Coarter Coarter Coarter Carter Cart | 1,575 872 2,500 800 1,350 713 885 1,150 1,091 1,400 1,337 643 1,456 1,269 2,058 839 556 1,293 2,138 | 16 8 3 13 13 5 5 6 4 4 9 9 12 9 9 12 9 9 12 9 10 6 10 7 7 11 8 11 16 | | + 0.4 + 1.2 + 3.1 + 2.8 + 1.9 + 0.3 + 1.9 + 1.8 + 0.1 | 104 103 105 104 105 103 103 103 107 103 98 101 102 102 103 103 103 103 103 | 10 10 10† 4 2 10† 10 10 10 10 10 10 2† 2† 2† 2† 2† 2† | 37° 39° 411 40° 31° 32° 36° 43° 35° 37° 35° 35° 37° 35° 35° 37° 35° 37° 35° 35° 35° 35° 35° 35° 35° 35° 35° 35 | 28 28 28 27 27 27 29 27 28 24 28 22 28 27 27 28† 28 28 28 28 27 27 28 28 28 28 28 27 27 28 28 28 28 27 28 28 28 28 28 28 28 28 28 28 28 28 28 | 46 48 46 49 46 63 46 51 40 52 49 47 51 55 51 46 45 52 49 47 51 48 52 49 49 40 40 40 40 40 40 40 40 40 40 40 40 40 | 0.90 0.23 1.19 1.52 0.83 1.70 0.43 0.47 1.12 0.26 0.28 4.05 0.62 1.34 1.34 1.34 1.34 1.45 3.95 1.53 | - 2.12 - 0.76 - 2.19 + 0.82 - 2.46 - 2.81 | 0.55 0.158 0.689 0.65 0.20 0.249 0.40 0.77 0.14 0.28 1.28 0.38 0.60 1.31 1.10 1.82 0.85 | 0.00 | 322353 243212 31613553431 | 26 27 22 23 23 29 24 25 28 29 22 25 26 21 27 27 27 27 27 27 27 27 27 27 27 27 27 | 2 2 4 7 7 5 1 1 0 0 6 5 5 16 3 9 11 2 8 3 3 2 2 3 11 4 | 2 1 4 0 2 0 2 0 2 0 3 3 0 3 1 0 1 0 1 0 1 0 1 | 8. 8. 8. 8. 8. 8. 8. 10. 8. 8. 8. 8. 8. 8. 8. 8. 8. 8. 8. 8. 8. | G. D. Teeter. Geo E. Marsh. H. T. Nisbett. Dr. A. P. Owens. W. C. Frazer. J. Landis. L. M. Brink. U. S. Forest Service. Thomas Purcell. Chas. L. Tuttle. Squire Humble. J. C. Good. J. P. Stutsman. N. A. Andress. Nelson Houk. R. D. Barnes. Url B. Worcester. Dr. J. D. Warford. C. W. Prier. John T. Welsh. B. B. Bradley. C. H. Holmes. G. W. Derrick. A. L. Mordt. J. G. Harrington. Edward Glendenning. A. C. Heald. |

Table 1.—Climatological data for September, 1909. District No. 7—Continued.

| | Тав | LE 1.— | -Cli | matolo | gical de | ita fo | r Se | pteml | er, | 1909 |). D | istrict I | Vo. 7- | -Cor | tin | ued. | | | | |
|---|---|-------------------------------------|---|--|---|--|----------------------------------|--|--|--|--|--|--|---|---------------------------------|--|------------------------------------|-----------------------------------|-------------------------------|---|
| | | ļ | Y. | Tem | perature | , in de | grees | Fahr | enhe | it. | Prec | ipitation | , in inc | | 6 KB | ! | Sky. | | tton. | |
| Stations. | Countles. | Elevation, feet. | Length of record, | Mean. | Departure from the normal. | Highest. | Date. | Lowest. | Date. | Greatest dally range. | Total. | Departure from the normal. | Greatest in 24 hours. | Total snowfall unmelted. | Number rainy days, | Number of clear days. | Number of part- ly cloudy days. | Number of cloudy days. | Prevailing wind direction. | Observers. |
| Oklahoma—Cont'd. Hennessey | Kiowa Hughes Texas | 1,396 900 2,999 | 15 6 9 4 | 75. 6 75. 2 74. 6 68. 9 | + 1.5 + 0.8 | 106 102 103 100 | 10 1 11 2 2 | 41 41 38 38 38 | 28 23 28 28 | 51 37 51 45 | 1.56 | - 2.18 - 3.38 | 0.68 0.46 0.60 0.71 | 0.0 0.0 0.0 0.0 | 2 2 3 3 | 19 23 25 18 | 11 6 5 2 | 0 1 0 10 | S. S. S. | W. W. Parks. Roy Benedict. Miss M. Rutherford. J. N. Kelly. |
| Hurley | Cimarron McCurtain Grant Cimarron | 474 1,062 4,000 | 1 3 16 10 12 | 65. 5 72. 5 67. 7 75. 5 | - 0.8 - 0.5 + 1.5 | 98 96 99 104 | 2 3† 2 10 | 38 33 36 33 | 22† 28 23 28 | 41 47 44 52 | 1.45 1.26 1.61 | - 1.16 - 0.60 - 1.84 | 1. 20 0. 50 0. 52 0. 92 | 0.0 0.0 0.0 0.0 | 2 4 4 2 | 19 26 22 20 | 3 3 10 | 7 1 5 0 | sw. s. s. | J. N. Kelly. C. W. Myers. Dr. W. B. McCaskill. J. M. Maddy. L. A. Wikoff. J. C. Cross. |
| McAlester McComb Mangum Marlow | Pittsburg Pottawatomie Greer Stephens | 698 1,200 1,585 1,292 | 17 15 17 9 16 | 75.8 73.7 76.5 74.6 | $\begin{array}{c} + 2.3 \\ - 0.7 \\ + 2.7 \\ + 0.2 \\ + 3.4 \end{array}$ | 102 101 102 104 | 11 10† 11 11 | 37 40 45 32 | 28 28† 28 28 | 48 49 41 52 | 0. 26 0. 80 | - 2.71 - 1.62 - 3.40 - 1.94 - 2.33 | 0. 26 0. 73 0. 14 0. 55 | 0.0 0.0 0.0 0.0 | 1 2 1 | 21 28 27 28 | 9 | 0 2 3 2 | s. s. ne. s. | J. C. Cross. Wm. Noble. Jas. E. McNair. Wade N. Johnson. W. B. Anthony. Dr. John H. Baugh. |
| Meeker | Muscogee | 1,500 1,149 1,171 | 11 3 4 13 16 | 77.1 74.2 75.2 75.2 75.0 75.1 | + 2.1 + 0.4 | 107 106 102 101 101 101 | 11 4† 10† 3† 10† | 41 36 41 42 36 38 | 27 28 28 26† 26† 28 | 43 51 43 | 0.71 0.95 1.93 2.32 0.81 0.83 | - 0.88 - 1.80 | 0. 42 0. 95 1. 91 1. 92 0. 23 0. 61 | 0.0 0.0 0.0 0.0 0.0 0.0 | 2 2 1 2 2 6 3 | 19 28 27 20 15 23 | 11 0 2 10 15 6 | 0 2 1 0 0 | se. s. se. s. | Prof. E. N. Collette. Thos. Martin. R. M. Schooling, P. H. Allright & Co. Walter H. Meler. Dr. L. H. Murdock. |
| OkiahomaOkmulgee Pauls ValleyPawhuskaPerry | Oklahoma Okmulgee Garvin Osage Noble | 1,247 752 880 918 1,060 | 20 7 10 11 12 | 74.9 76.4 73.8 | $+2.8 \\ +0.4 \\ +2.9$ | 100 105 104 102* | 11 11 10 | 43 33 33 39 39 | 27 28† 28 | 54 55 43 | 0.53 0.04 0.52 | - 2, 22 - 3, 20 - 1, 56 | 0.46 0.04 0.47 | 0.0 0.0 0.0 | 1 2 | 20 24 27 27 21 24 | 5 4 3 9 6 | 5 2 0 .:0 0 | s. s. s. | U. S. Weather Bureau. J. L. Maynard. A. M. Foss. R. C. Block. J. A. Douglas. R. G. Guptill. |
| Ravia Sac and Fox Agency Shawnee Snyder Stillwater Supply | Canadian Pottawatomie Kiowa Payne Woodward | 900 1,041 1,356 880 | 8 17 9 3 17 | 77.0 77.1 75.2 76.2 73.6 72.7 | + 3.6 + 1.8 + 0.7 | 105 103 102 101 101 103 | 10 11 11 10† 11 2 | 39 36 40 36 36 | 28† 28 28 28 28 28 27† | 42 47 43 49 49 | 0. 30 0. 43 0. 62 0. 48 1. 54 3. 32 | - 2.15 - 1.80 | 0. 15 0. 23 0. 43 0. 48 1. 21 1. 23 | 0.0 0.0 0.0 0.0 0.0 0.0 | 3 3 1 3 6 | 25 26 25 25 22 17 | 2 1 5 4 | 33042 | s. sw. s. s. s. | N. G. Gupun. D. J. Henderson. Neal R. Clark. Dr. W. G. Woodard. John M. Speidel. A. H. Trimbo. G. F. Fitch. |
| Temple | Tulssdo | 700 702 698 588 1, 258 | 6 21 5 6 13 | 75.5 75.5 78.2 74.3 | + 0.1 + 4.0 + 0.4 | 103 105 104 103 | 10† 10† 3† 11 | 37 40 | 28 28 28 27† | 50 50 46 50 | 0. 25 1. 10 0. 02 0. 89 | - 2.10 - 3.46 - 2.15 | 0. 14 1. 00 0. 02 0. 52 | 0.0 0.0 0.0 0.0 0.0 | 3 1 3 | 21 20 17 24 25 | 2 4 0 4 | 7 6 7 2 | n. s. s. se. | William Hall. Miss Pearl E. Towers. Lyman Bros. S. L. Hatfield. R. C. Shades. |
| Weatherford | Custer. Muskogee. Kay. Woodward. | 1,639 479 945 | 8 11 4 1 | 75.4 74.6 75.4 73.2 67.6 | - 0.2 - 2.5 | 102 105 100 102 | 10 11 4† 2 | 39 34 37 34 33 | 28 28 28 28 | 46 51 46 51 39 | 3.08 2.00 0.26 4.88 3.74 | - 1.49 - 0.08 | 2. 19 0. 70 0. 15 3. 95 | 0.0 0.0 0.0 0.0 | 4 7 3 4 6 | 25 13 24 27 4 | 3 17 6 2 | 2 0 0 1 | s. e. se. s. | M. D. Reed, B. D. Boulineau. J. M. Dankwardt, R. A. Boyle. A. J. Wofford. |
| Birchtree. Cape Girardeau Caruthersville. Dean Doniphan | Cape Girardeau Pemiscot McDonald Ripley | 1,200 346 440 | 15 4 18 10 5 | 70. 2 72. 5 69. 2 | + 0.8 + 1.6 | 95 105 95 | 9 11 9 | 36 32 36 | 28 28 28 28 | 38 51 38 | 3.68 1.66 4.76 | + 0.58 - 1.65 | 1. 15 1. 51 2. 00 | 0.0 0.0 0.0 | 9 4 6 | 21 24 17 | 1 6 | 5 5 7 | ne. | V. H. Kirkendall. D. L. Albert. H. E. Averill. H. E. Dean. W. W. Martin. |
| Farmington f | Dent | 900 | 2 5 4 14 31 18 | 67. 6 69. 6 66. 0 71. 0 67. 6 70. 5 | + 0.7 + 0.2 + 1.3 | 96 100 96 100 97 95 | 12 3 9 3 | 35 35 32 36 31 38 | 28 28 28 28 28 28 26 27 | 39 39 48 41 40 | 6. 01 3. 57 4. 60 5. 16 6. 57 8. 36 | + 2.31 + 3.18 + 4.96 | 3. 25 1. 09 1. 96 1. 91 2. 20 2. 60 | 0.0 0.0 0.0 0.0 0.0 | 5 7 7 6 8 7 | 17 20 20 16 14 15 | 0 6 1 12 12 10 | 5 4 9 2 4 5 | se. s. n. n. | Miss Helen Montgomery A. C. Leech. F. M. Adams. A. G. Templeton. W. H. Delano. L. M. Bean. |
| Joplin ^m Koehkonong Lamar Marble Hill Marshfield | Jasper Oregon Barton Bollinger Webster. | 979 911 964 420 1,492 | 30 9 28 16 | 68.2 70.9 73.6 69.2 | + 3.4 - 1.4 | 90 102 104 96 | 14 3 11 9 | 39 41 35 36 34 | 26 27 28 28 28 | 42 36 47 37 | 1.90 3.24 1.09 5.75 | - 3.08 + 2.14 - 0.22 | 1.40 1.14 | 0.0 0.0 0.0 0.0 | 9 2 6 | 13 19 20 16 | 0 8 6 13 | 4 3 4 1 | ne. ne. sw. s. | Miss Elizabeth Russum. J. W. Hitt. E. H. Adams. A. F. Hendricks. O. P. Keeler. Dr. O. H. Brown. |
| Mt. Vernon | Newton Franklin Howell Perry Butler | 1,023 793 1,246 592 343 | 33 25 17 19 1 | 71. 6 68. 4 69. 2 | + 0.3 + 1.4 - 2.2 - 0.4 | 102 97 97 | 11 3 10 | 32 40 38 | 27† 27 28 | 46 32 40 | 2. 16 6. 83 3. 44 | - 2.06 + 3.40 - 0.43 | 1. 93 3. 11 1. 52 | 0.0 0.0 0.0 | 8 6 | 21 12 18 | 5 11 8 | 4 7 4 | sw. s. e. | H. D. Dean. E. E. Steiner. J. D. Evans. S. L. Cayton. E. C. Thomes. A. A. Harrison. |
| Sikeston Springfield Steelville Willow Springs Kentucky. Blandville | Greene | 1,350 1,746 1,300 | 14 22 12 16 29 | 70.7 70.6 71.4 70.4 | $ \begin{array}{r} -0.5 \\ +2.7 \\ +1.9 \\ -3.2 \end{array} $ | 93 96 99 98 88 | 3 3 3 12 | 39 42 31 34 43 | 28 27 28 28 28 | 35 32 42 46 | 6. 57 0. 69 3. 55 2. 50 5. 79 | + 3.59 - 3.07 + 0.59 - 1.51 + 2.67 | 2.30 0.29 0.65 1.19 | 0.0 0.0 0.0 0.0 | 7 9 5 4 | 23 22 13 18 | 4 3 8 2 | 3 7 10 | se. se. n. ne. | A. A. Harrison. U. S. Weather Bureau. Edwin Pumphrey. John Lovewell. E. W. Horr. |
| Lynnville | Shelby | 450 361 | 28 25 27 | 70. 6 71. 0 70. 0 | - 0.9 - 0.2 - 1.7 | 93 96 98 96 96 97 | 9 3 3 | 40 38 39 40 | 28 | 33 44 40 34 | 5.65 | | 1.40 | 0.0 0.0 0.0 0.0 | 7 6 5 5 8 | 19 15 16 15 | 5 7 2 10 | 6 8 12 5 | sw. n. n. s. | Wm. Scherffius. A. T. B. Etheridge. Miss M. A. Smith. Miss Hattle N. Moss. |
| Covington Dyersburg Jackson Kenton ^b Memphis Milan Trenton ^a Union City | Tipton. Dyer. Madison. Obion. Shelby. Gibson. do. | 310 450 409 440 345 | 27 27 16 8 39 27 28 14 | 71. 2 71. 3 73. 3 72. 0 73. 2 69. 3 70. 2 72. 0 | $\begin{array}{c} -0.8 \\ -0.5 \\ +0.7 \\ -0.1 \\ +0.4 \\ -2.5 \\ -1.2 \\ -0.5 \end{array}$ | 96 97 97 95 94 95 97 | 10 3 3† 9 3 3 | 40 41 38 39 47 40 36 39 | 28 28 28 28 28 28 28 28 28 28 28 28 28 | 43 36 42 35 25 38 41 40 | 3.80 3.74 4.79 5.90 4.09 4.55 5.46 4.88 | + 0.11 + 0.03 + 2.00 + 1.11 + 0.68 + 2.21 + 3.00 + 1.04 + 1.48 + 2.43 + 1.71 | 1.25 1.30 1.24 1.73 2.37 1.54 1.94 1.82 | 0.0 0.0 0.0 0.0 0.0 0.0 0.0 | 6 5 6 8 7 8 7 | 21 19 13 19 16 13 21 21 | 0 9 4 6 5 4 8 | 9 11 8 7 8 12 5 | n. ne. n. ne. ne. | J. S. Ruffin. M. A. Sinclair. T. H. Hartmus. G. S. Martin. U. S. Weather Bureau. O. F. Cantwell. Prof. F. J Dennison. Earl A. Kinzey. |
| Arkansas. Amity | LawrencedodoDesha | 250 250 145 | 5 17 2 26 10 | 72.7 76.1 76.8 | + 3.0 | 100 105 102 | 3 11 8† | 37 32 39 | 28 28 28 | 39 53 42 | 3.50 0.99 1.19 5.36 | - 1.79 - 2.85 | 2.00 0.93 0.83 3.10 1.18 | 0.0 0.0 0.0 0.0 0.0 | 3 2 3 0 7 | 22 22 21 | 8 5 7 | 0 3 2 | sw. ne. n. | McCullough & Guelck. Prof. S. M. Samson. J. A. Ross. W. C. Blundell. John Q. Wolf. |
| Batesville (2) | Van Buren. Saline. Benton. Boone. | 271 283 1,303 1,324 | 5 17 2 4 13 5 | 75. 6 74. 0 i 72. 6 | + 1.8 + 3.7 - 0.8 | 106 96 101 101 | 3 12 ^k 11 3 | 40 44¤ 37 31 | 28 28 28 28 | 44 37 40 48 | 3.55 2.73 1.39 0.87 4.44 | + 0.51 - 2.08 - 2.69 + 0.61 | 1. 10 1. 66 0. 84 0. 70 2. 07 | 0.0 0.0 0.0 0.0 0.0 0.0 | 5 4 5 3 6 5 | 19 19 | 6 7 5 10 | 5 4 4 2 | nw. sw. nw. | Miss Lelia I. Feter J. E. Scanlan. J. E. Evans. U. S. Weather Bureau. John T. Maxey. S. J. Howe. H. L. D. Whitson. |

Table 1.—Climatological data for September, 1909. District No. 7.—Continued.

| | TABLE | 1.—U | т. | uoiogic : | a aaa | jor is | e ptei | nvoer, | 190 | 9. | Disti | rict No. | <i>/</i> _C | onun | : - | i. | | _ | | |
|---|--|---|--|---|---|--|--|---|---|--|---|--|---|--|--|---|---|--|----------------------------|--|
| | | | yrs. | Tem | perature, | , in de | grees | Fahre | enhei | t. | Prec | ipitation | ı, in in | | days | | Sky. | _ | Hon. | |
| Stations. | Counties. | Elevation, feet. | Length of record, | Mean. | Departure from the normal. | Highest. | Date. | Lowest. | Date. | Greatest daily range. | Total. | Departure from the normal. | Greatest in 24 hours. | Total snowfall unmelted. | Number of rainy da .01 inch or more. | Number of clear days. | Number of part- ly cloudy days. | cloudy days. | Frevaiing wind direction. | Observers. |
| Arkansas—Cont'd. | Trand | 961 | | | | ; | | | į | | 9 14 | İ | 1 20 | | | | | | | W II GA |
| Arkansas—Cont'd. Calico Rock Canden Canterpoint Clarendon Conway. Corning Dardanelle. Dodd City Dutton Earl Eidorado Eagland Earles Eidorado Eagland Enterka Springs Fayetteville Fort Smith Fulton Hardy Hardy Helena (1) Helena (2) Holos Springs Huttig Jonesboro Junction Lacrosse Lake Farm Lawisville Little Rock Lutherville Malvern Mammoth Spring Marked Tree Mena. Mossville Mosville Prineston Rogers Russellville Spielerville Spielerville Spielerville Spielerville Springbank Statégart Texarkana Warren Whiteeliffs Wynne Mississippi Anguilla Austin Batesville Byhalia Canton Clarksdale Coffreville Corenshaw Duck Hill! Edwards Edwards Edwards Edwards Edwards Lake Cormorant Lula Marks Nathes Na | Izard Ouachita Howard Monroe Faulkner Clay Yell Marion. Madison Crittenden Union Lonoke. Carroll Washington Sebastian Hempstead Sharp. Phillipido Garland Union Izard Jefferson Lafayette Pulaski. Johnson Columbia Hot Spring Fulton Poinsett Polk Newton Yell Jacksondo Franklin Jefferson Randolph Benton Randolph Randolp | 361 158 361 158 371 309 300 300 228 177 430 187 430 440 301 301 451 451 140 301 180 206 310 310 310 310 310 310 310 310 310 310 | 5 24 9 5 6 17 23 28 8 3 2 6 16 15 2 6 6 3 19 2 2 2 2 1 1 1 1 2 2 2 2 2 1 1 1 1 1 | 76. 2 77. 8 75. 2 75. 8 71. 8 73. 5 76. 0 74. 7 75. 7 76. 4 71. 9 74. 2 78. 0 74. 8 74. 6 70. 2 74. 8 74. 6 70. 2 71. 9 72. 9 73. 0 74. 7 75. 7 77. 8 77. 8 77. 8 77. 8 77. 8 77. 9 77. 9 | + 1.8 + 2.1 + 1.3 + 0.2 + 4.5 + 3.7 + 0.6 - 1.3 + 1.7 + 1.6 + 0.5 + 2.1 + 1.9 + 1.2 + 1.2 + 1.8 + 1.6 + 1.2 + 1.3 - 0.3 + 1.7 + 1.8 + 1.6 + 1.9 - 0.4 + 1.9 - 0.4 + 1.9 - 0.5 - 1.3 - 0.5 - | 104 104 99 104 102 99 103 101 102 104 105 99 101 101 101 103 101 103 101 101 103 101 101 | 10 10† 10 3 3† 3 10 9 9 111 11 11 11 10 3 10 10 10 10 10 10 10 10 10 | 39 39 36 38 41 39 46 40 31 41 31 32 41 41 31 32 41 41 31 32 41 41 31 32 41 41 41 31 32 41 41 41 41 41 41 41 41 41 41 41 41 41 | 28 28 28 28 28 28 28 28 28 28 28 28 28 2 | 45 47 43 46 47 45 46 40 41 41 44 44 48 48 48 49 40 41 41 41 41 41 41 41 41 41 41 41 41 41 | 3.144.34 4.34.50 4.35.50 6.42.10 6.42. | - 0.05 - 0.97 - 0.33 - 1.61 - 1.95 - 2.99 - 2.79 + 0.70 - 0.36 + 0.64 + 2.03 - 0.07 - 2.96 - 2.64 + 4.39 - 2.52 - 0.24 + 0.96 - 2.59 - 1.09 - 3.11 | 1.30 2.20 1.78 1.64 1.92 0.72 2.33 3.04 1.95 0.31 1.95 0.35 1.95 0.35 1.95 0.35 1.95 0.37 2.35 3.04 1.66 2.35 3.04 1.35 0.59 0.59 0.59 0.59 0.59 0.59 0.59 0.5 | 0.0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 461868442546 45285 454 4562 68443 7 256464 3 34643357 23654357 | 27 20 144 19 13 20 184 10 19 23 144 19 21 12 11 12 11 12 11 12 11 12 12 12 12 | 0 6 6 3 14 8 5 12 9 12 15 11 2 9 12 1 12 8 8 6 6 0 7 7 9 9 0 14 5 5 5 1 1 3 1 3 1 3 1 3 1 3 1 3 1 4 3 1 5 1 5 1 1 1 2 1 2 8 1 1 2 1 2 8 1 1 2 1 2 1 3 1 1 1 1 1 1 1 1 1 1 1 1 1 | 34 177588 4436 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 10 | W. H. Stoner. R. H. Quarterman. J. M. Huddleston. Mrs. B. E. Bishop. G. H. Burr. Jacob Brobst. A. Bernard. Neal Dodd. T. S. Williamson. W. J. Moss. Fred A. Babb. J. C. Chenault. Jas. T. Pomeroy. University of Arkansas. U. S. Weather Bureau. B. C. Logan. C. A. Caywood. Robert Kyle. B. F. Modisett. Hot Springs Water Co. C. A. Berry. Benedlettine Sisters. J. A. Lowderback. R. E. Kennard. R. H. Gillespie. F. W. Youmans. U. S. Weather Bureau. Herman Hentschel. L. A. Smith. D. H. Hopkins. Theo. Ober. T. G. Church. Mrs. A. B. Hillhouse. A. V. Hughes. R. M. Adams. J. H. Hudson. Benedictine Sisters. A. F. Stevens. T. A. Corson. A. M. Fillsworth. Capt. D. R. Feaster. Carl A. Stark. J. F. Hodgins. New Sublaco Abbey. G. Field. H. A. Buerkle. W. B. Weeks. W. J. Savage. John E. Payton. S. D. Jester. R. R. Poole. E. W. Cook. H. J. Irvine. J. M. Cox. Tallabatchie Dng. Com. Mitson A. Chandler. Tallahatchie Dng. Com. Mitson A. Chandler. Tallahatchie Dng. Com. Mitson A. Chandler. Tallahatchie Dng. Com. Miss Josephine G. Jones. Tallahatchie Dng. Com. L. Dardem. F. L. Harbison. J. H. Stephen. Tallahatchie Dng. Com. Miss Josephine G. Jones. Tallahatchie Dng. Com. L. Lucas. Tallahatchie Dng. Com. Tallahatchie Dng. Com. L. Lucas. Tallahatchie Dng. Com. L. C. Weir. Tallahatchie Dng. Com. Tallahatchie Dng. Com. L. Lucas. Tallahatchie Dng. Com. Tallahatchie Dng. Com. L. C. Weir. Tallahatchie Dng. Com. Tallahatchie Dng. Com. Tallahatchie Dng. Com. Tallahatchie Dng. Com. Tallahatchie Dng. Com. Tallahatchie Dng. Com. Tallahatchie Dng. Com. Tallahatchie Dng. Com. Tallahatchie Dng. Com. Tallahatchie Dng. Com. Tallahatchie Dng. Com. Tallahatchie Dng. Com. To. Weir. Tallahatchie Dng. Com. To. C. Weir. Tallahatchie Dng. Com. |
| Pontotoc. Port Gibson Ripley Roesdale Senatobia Shoccoe Suffolk Swan Lake Tuchula University Uttes. | Pontotoo. Claiborne. Tippah. Bolivar. Tate Madison Franklin Tallahatchie Holmes. La Fayette. Hinds. | 475 116 143 | 20 21 10 1 6 8 8 4 17 | 75. 7 73. 7 ^b 75. 8 ^b 74. 9 77. 2 | + 1.2 - 0.1 + 1.1 | 96° 100° 95° 103° 103° 100° 100° | 2† 3 9 7† 1 1 | 40 42° 40 43 39 | 28 28 28† | 39 37 40 | 3. 55 4. 05 2. 70 2. 52 4. 85 2. 34 3. 29 2. 30 6. 35 | + 0.48 + 0.92 - 1.60 | 2.00 3.05 1.60 1.90 2.31 1.78 1.50 2.30 2.90 | 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 | 6 4 2 4 6 3 7 2 5 | 12 24 25 19 27 20 13 | 18 1 3 6 6 7 13 4 15 15 17 17 17 17 17 17 | s e e e e e e e e e e e e e e e e e e e | w. e. e. /. /. | Dr. C. W. Bolton. H. H. Crisier. S. W. Pegram. W. A. Shelby. Tallahatchie Dng. Com. J. C. Pitchford. Prof. Geo. H. Kent. B. F. Saunders. Dr. M. P. Winkler. Prof. J. W. Johnson. Dr. J. B. Dudley. U. S. Weather Bureau. |
| Vicksburg | Warren. Yalobusha Wilkinson. Yazoo | 247 300 560 116 | 38 20 16 15 | 76. 0 74. 7 76. 6 76. 2 | $+\begin{array}{c c} 1.2 \\ 0.0 \\ -0.6 \\ -0.3 \end{array}$ | 95 101 98 99 | 7 10 10 8† | 42 46 41 44 42 | 28 29 28 | 26 43 33 37 | 4.96 3.99 7.69 3.74 | + 4.16 | 3. 71 2. 20 4. 10 3. 04 | 0.0 0.0 0.0 0.0 | 9 7 5 9 3 | 19 20 21 22 | 9 3 7 3 4 4 | l n l n l Se | e. e. | U. S. Weather Bureau. Miss Lula Erikson. James E. Lee. H. S. Orr. |

TABLE 1.—Climatological data for September, 1909. District No. 7—Continued.

| | TABLE | c 1.—C | Clim | atological de | ıla for | Sept | ember | r, 1909 |). I | District | No. 7 | 7—C | ontu | ıue | d. | | | |
|---|---|--|--|--|---|--|--|---|---|-----------------------|--|---|---|---|---------------------------------------|---|--|---|
| | | | yra. | Temperatu | e, in de | grees | Fahre | nheit. | P | recipita | tion, l | n inc | | days, re. | | ky. | tion. | |
| Stations. | Countles. | Elevation, feet. | Length of record, | Mean. Departure from the normal. | Highest. | Date. | Lowest. | Date. Greatest dally | 똵 | Total. Departure from | the normal. | hours. | Total snowfall unmelted. | Number of rainy .01 inch or mo | Number of clear days. Number of part- | ly cloudy days. Number of | Prevailing wind direction. | Observers. |
| New Orleans (4). New Orleans (5). New Orleans (6). New Orleans (7). New Orleans (7). New Orleans (8). Opelousas. Pearl River. Plain Dealing. Rayne. Reserve. Robeline. Ruston Schriever. Shreveport. Simmesport. Southern Univ. Farm. St. Francisville. | Tangipahoa E. Baton Rouge Ascension. Plaquemines Ouachita. Cameron Rapides East Feliciana Morehouse. St. Tammany Winn Ascension Union Concordia St. Mary De Soto St. Landry Tangipahoa Terrebonne Calcasieu Lafavette Calcasieu Cameron Plaquemines Bienville De Soto St. Landry Tensas Bienville De Soto St. Landry Tensas Bienville De Soto St. Landry Webster Ouachita St. Mary Tensas Iberia Orleans do do do do do St. Landry St. Tammany Bossier Acadia St. John Baptist Natchitoches Lincoln Terrebonne Caddo Avoyelles Landry Rossier Acadia St. John Baptist Natchitoches Lincoln Terrebonne Caddo Avoyelles Landry Caddo Avoyelles Landry Caddo Avoyelles Landry Caddo Avoyelles Landry Caddo Avoyelles Landry Caddo Caddo Avoyelles Landry Caddo | 77 1300 35 20 1180 6 67 113 65 39 33 177 10 302 93 44 44 44 45 15 18 82 14 15 18 83 268 44 147 312 249 | 221 201 201 201 19 114 220 7 17 11 122 21 21 20 7 17 17 18 22 21 22 4 22 21 22 4 22 22 21 19 33 5 22 21 19 33 17 18 22 20 20 21 21 21 21 21 21 21 21 21 21 21 21 21 | | 93 4 90 5 104 90 98 7 96 102 3 96 102 3 96 103 101 101 101 100 100 100 100 | 10 10 10 11 11 12 10 10 10 10 10 10 10 10 10 10 10 10 10 | 43 48 42 40 45 40 45 45 43 43 44 45 43 45 45 45 45 45 45 45 45 45 45 45 45 45 | 28 12 29 44 29 32 28 53 29 33 29 32 29 32 29 44 29 32 29 32 29 42 28 33 29 44 28 33 29 44 28 33 28 42 28 33 28 44 28 34 28 44 28 44 | 4 6 6 6 4 3 . 3 8 2 5 2 5 5 4 4 7 2 5 7 . 2 5 4 2 5 3 2 7 7 2 2 4 3 3 0 7 6 8 8 7 7 7 5 4 6 7 7 1 1 1 9 5 5 . 0 9 8 8 6 8 7 7 5 5 4 6 7 7 1 3 5 5 2 2 9 1 4 5 6 7 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 33 | 50 20 254 555 31 | 92 92 92 13 15 160 10 10 10 10 10 10 10 10 10 10 10 10 10 | 0.0000000000000000000000000000000000000 | 8585474 .364933229366 .6745743364830988110071042534229666 | 21 | 7 6 25 33 3 0 0 1 1 1 1 2 2 7 7 5 6 6 0 3 2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 | n. n. n. n. n. n. se. n. n. n. n. se. n. n. n. n. n. n. n. n. n. n. n. n. n. | Hon. C. J. Edwards. Miss Nellie Graham. Miss Lula M. Wentz. Elmo M. Bott. C. S. McFarland. Graham Myers. N. L. Exp. Station. State Biologic Station. Walter I. Tanner. John A. White, jr. W. A. Page. C. Champagne. J. P. Lucas. John F. Park. W. P. Chandler. R. Z. Slater. Miss Josephine M. Bonney. J. Paxton. St. Charles College. C. C. Carr. J. M. Haggerty. J. F. Buch. J. J. Davidson. A. O. Boudreaux. L. J. Nunemacher. H. C. Warmoth. Dr. E. A. Crawford. Mrs. Bettie M. Dennis. Chas. B. McNeill. Miss Ethel Fort. Eugene Stannard. Virgil E. Kinsey. John D. Fultz. Mrs. Jno. A. Gebert. U. S. Weather Bureau. Sugar Exp. Station. Sewerage and Water Board, New Orleans Drainage Commission. Andrew Moresl. George F. Bancks. Leon Sanders. A. P. McNeil. Leon Godchaux Co. Miss Ruby McCook. J. C. H. McKinney. Charles V. Moore. U. S. Weather Bureau. W. P. Denny. F. L. St. Martin. L. P. Kilbourne. G. W. Richardson. G. P. Blair. |

<sup>Precipitation included in that of the next measurement.
Temperature extremes are from observed readings of the dry-bulb; means are computed from observed readings
Also on other dates.
Data are from standard instruments not supplied by the U. S. Weather Bureau.
Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs. Estimated by observer.
Precipitation for the 24 hours ending on the morning when it is measured.
Precipitation is less than 0.01 inch rain or melted snow.
p. etc., indicate, respectively, 1, 2, 3, etc., days missing from the record.</sup>

TABLE 2-Daily precipitation for September, 1909. District No. 7, Lower Mississippi Valley.

| Reference 1 2 3 4 5 5 7 7 8 9 10 11 10 15 15 15 15 10 10 10 10 10 10 10 10 10 10 10 10 10 | | _ | | | | | | | | | | | | | | Da | y of | mont | h. | | | | | | | | | | | | | |
|--|--------------------------|---------------------------------------|-------------|----------------|------------------|-------------------|---------------|---------------|-----------|-----------|-----------|-----------|----------------|--------------|------------|---------------|---------|------------------|------------------|------------------|-----------|---------------|---------------------------------------|---------------|-------------|----------------|----------------|--------------|---|--------------|-------------|-----------|
| max Yesha. Aftermany. 00 101 41 51 71 10 10 10 10 10 10 10 10 10 10 10 10 10 | Stations. | River basins. | 1 | 2 | 3 | ; 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 1 | 7 | 18 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 |
| an Parth. Accounts. Colorado. | · · · · · · · · · · · · · · · · · · · | : . | Ţ | | | ı — | | | - | | - | | ' | | | | | _ _[_ | | | · | | ! | ! | | - <u>'</u> | i | | | | <u>'</u> |
| Section Sect | ne | Cimarron | | | | | ' | | | · | | | | | | ٠ | | | i. | | | | ļ | | | · | | | | ٠ | ' | • • • • |
| Schemen | | Arkansas | | 9 6 | 1.41 | | . si | | . 16 | | .30 | | | .08 | 1. 05 | | | | | . 09 | | Ť. | · · · · · · · · · · · · · · · · · · · | | | | | | | | ••• | •••• |
| Table | non City | Arkansas | | | | . 80 | 1. 25 | .05 | . 15 | | .05 | .03 | | | . 91 | | | | | | | | . 10 |) | | | | | | | | |
| Section Sect | | Fountain | 2 | 30 33 | . 65 | 1.09 | 92 | T. | .88 | 01 | 113 T. | T. | | . 05 | .71. | | | | | T .05 | | . т. | . 09 | } 5 | | · · · · | | | | · • • • • | · • • • | |
| St. Chamman | hara Camps | Cucharas | | | . 16 | . 88 | . 85 | | | | | | | . 22 | .88 | | | | | | | 1: | · · · · | | | · | | | | | | |
| The color of the | ds | Big Sandy St. Charles | • • • • • | | • • • • • | • • • • | '. . | • • • • | | • • • • | | • • • • | • • • • | • • • • • | 1 | 1.37 | | | • • • | • • • • • • | | • • • • • | • • • • | • • • • | • • • • | • • • • | • • • • • | •••• | <u> </u> | | ••• | •••• |
| Table Leeder Street 20 1 3 5 5 5 5 5 5 5 5 5 | rence | Arkansas | | | | 1.65 | | 30 | 30 | | | | | .40 | | | | | ::: | | | 20 | | | | | | | | | | |
| The color of the | rfield | Little Arkansas | 0 | 2 .03 | 43 | . 6'1 73 | 1.55 | .41 | . 12 | | .03 | .01 | • • • • | . 20 | . 48 | • • • • | • • • • | • • • | 10 | .04 | • • • • | | | ··· | • • • • • | • • • • | | ' | ' • • • • • • • • • • • • • • • • • • • | • • • • • • | • • • • • • | •••• |
| The color of the | mps | Big Sandy | | | . 33 | . 37 | .66 | .05 | i | . 09 | . 19 | | | | .48 | | | | | | | | . 13 | | | | | | | | | |
| | rmit Lake | Grape Creek | • • • • • | | | | 80 | 60 | 07 | | 08 | | Ť | 5.1 | 70 | | | •••• | ٠ | | • • • • | | | • • • • | | | ••••• | | | !. | • • • • | •••• |
| Artennas 71 7 7 7 7 7 1 1 1 1 2 2 2 2 2 2 2 2 2 | lly | . Arkansas | · · · · · | | | | . 15 | | | | | .04 | | (15) | 1. 10 | | | | | | | | | | | | | • | | | | |
| Description | ke Moraine | Fountain | 0: | 2 . 22 | . 65 | . 75 | . 53 | . 11 | . 27 | . 02 | . 15 | . 15 T | • • • • | | .70. | • • • • | | • • • • • | • • • • | | | 24 | . 09 |) | | · : | | , | - | | | |
| Description | Animas | do | · · · · · · | | .73 | . 13 | Ť. | T. | .43 | . 13 | | | | 1. 07 | . 23 | | :::: | | | | . | | | | | | | | ! | | | |
| See Part See Veta Pass | Cucharas | | | . 10 | 1. 22 | . 74 | . 25 | | · | | | т. | . 30 | .36 . | ٠٠٠. | • • • • | | ٠٠., | | | . <u>.</u> 10 | ٠ | | | · · · · | | | • • • • • | , - | • • • • | • • • • |
| Sylendonia Challe Creek 41 T 53 T 13 10 30 15 16 16 44 47 47 48 48 48 48 48 | on (near) | Big Sandy | | | .19 | . 47 | .38 | T. | | . 31 | . 15 | | | . 10 | . 62 | | | | | 1 | | | . 11 | | | | | | | | | |
| Systems | rshall Pass | Arkansas | | | | . 30 | 1.00 | . 65 | .04 | . 09 | | | | . 18 | . 45 . | | | • • • • • | | | | | | | | | | | | j. | | |
| Sylendonia Challe Creek 41 T 53 T 13 10 30 15 16 16 44 47 47 48 48 48 48 48 | plo | rurgatoire | | 45 | . 62 T. | $\frac{42}{1,83}$ | . 25 | . 12 | . 64 | Τ. | . 15 | . 15 | | . 60 | . 35 | | | | • • • • | | | т. | T. | • • • • | | | | | :::: | · · · | • • • • | |
| Action Arkanasa | kyford (near) | do | | : | <u></u> | | | ; | | ; | | | | | | | | | | | | | · | | | ļ | | | | | | |
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| Addition | ta Clara | Cucharas | | 15 | . 15 | 4, 65 | . 10 | . 35 | T. | T. | . 62 | . 65 | | . 121 | . 07 . | | | | | | | | . 21 | | | | . | | | | | |
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Table 2.—Daily precipitation for September, 1909. District No. 7—Continued.

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| osho | do | | | · | · | . 05 | .02 | . 16 | | i | | | | т. | 1.93 | | | اِا | • • • • | . | ; | | | | | | | | | | | | . 2 |
| kfield | Meramec White | | 1. | .08 | . 35 | | .04 | . 12 | . 02 | . 0. | | | | | 1.5 | | ii | | : : : : | :::: : | | 1. 10 | 27 | : : : i | : : : : | • • • • | | l:::: | | | <u> </u> | | 1 3 |
| eston | Mississlppi | | | T. | T. ! | 1.30 | T. | 1. 50 | . 35 | | . 25 | 5, | | | <u>.</u> | . 45 | •••• | , | · · · · { | | | 2. 30 | | .42 | [| | | | | | | | . d |
| ringfield | White Meramec | ::::: | . 04 | i' | . 20 | . 03 | • • • • | $\frac{29}{1.05}$ | . 25 | т. | | <u> </u> | .01 | . 01 | 1.35 | | | :::: | | | • • • • | . 65 | . 03 T | :::: : | | • • • • | • • • • | | · · · · | | | | 10 |
| llow Springs | White | | Τ. | T. | T. | T. | • • • • | . 55 | | ļ | | ., | | | 1. 10 | | | | | | | . 64 | . 12 | | | | | | | | | | . 2 |
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| Tennessee. | Mississippi | <u> </u> | ļ | 1 | : | . 52 | | | . 25 | | T. | ļ | | i | | т. | | | | i | | . 201 | . 45 | . 15 | | | | | | l | | | . 2 |
| ington | do | | | | | . 95 | | | . 50 | | .32 | | | | | | | | | | | . 45 | . 88 | Т. | | | | | | | | | . 3 |
| ownsville vington | do |)(III | ::::: | | • • • • | 1. 46 . 75 | • • • • • • • | ' | . 05 | . 23 | 1.00 |)] | | ittiti | • • • • | Т. | . 33 | :::: | | | | . 67 | . 25 | . 75 | | :::: | •••• | | | · · · · · | | | . 3 |
| ersburg | do | ļ | ļ | ļ | | | | | T. | . 57 | . 97 | Ţ | | | | | | | | | | . 80 1 | l. 30 | . 10 | | | | | | | | | . 3 |
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| an nton | do | | | т. | 70 | . 22 | • • • • | . 62 | . 45 | .11 | 1, 54 | | | | т. | . 30 | 48 | • • • • • • | | ; | 1 | $\frac{40}{46}$ | . 50 | .01 | | •••• | • • • • | | • • • • | | · • • • | | 1 |
| ion City | do | | | | | 1.40. | | | | .30 | 1.30 | j . . | | ! | | | | : | ! . | | 1 | 82. | | | | | | | | | | ļ | . 14 |
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| dty(| Ouachita | T. | | | | .06 | | | | | | T. | | ļļ | · <u></u> . | | | | | | Ť. | . 93 | | | | | | | | | | [| Ì |
| kadelphia (near) | Mississippl | | | | | | ! | ' | ' | | | . 50 | ٠ | l l | - 30 | | | '. | | | 3 | l. 10L | . 101 | . 36!. | | | | | | l. . | | I | . 1.5 |
| zerville (1) | White | | | | | . 46 | | | | . 20 | 62 | 2 | | l l | | .06 | | | | | 1 | . 18 | . 70 | . 26 . | | 1 | | <i>.</i> . | | l <i>.</i> l | | ١ | . 13 |
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| eka Springs\ | Arkansas | .oi | i | | | . 31 | . 02 | , | | т. | | | T. | T. | .03 | | | | | : | | .01 | т. | | $ \cdot $ | | | | | 1 | | | .] (|
| eka Springs\ etteville t Smith | | | | | | . 74 | | | | | | ٠ ا | ! | | | ' | . | !. | | | .ا نند | . 30'. | ٠ | باييت | | | | | | 1 1 | | ! | |
| ettevillet Smith | Red | | | | т | 47 | | т , | | 01 | 114 | . 1 | | 1 | 22 | 00 | - 1 | - 1 | | , , | | ee. | . 74" | 99 | , | , | , | , | | , , | | | |
| ette Springs | Red White Mississippi | | | | T. 1 | . 47 . 10 | T. | T. | :::i | .01 | .04 | :::: | | | .33 | .02 | :::: : | :::: | • • • • • | :::[.` | $\begin{bmatrix} \Gamma \cdot & \Gamma \\ 2 \end{bmatrix}$ | . 66 . 34 | . 7C | . 28 . 26 | T. (: | | :::: | | :::: | : | • • • • | | 3 |
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| eka Springs | Red White Mississippido Duachitado do | | | 40 | 1. 1 | .10 | т. | 1. | | | .01 | | | ! | .06 | .02 | | | | ::: . ::: | ½ | . 34 . 17 1 | . 52 . 43 | .26 | т. | | | | | | | | |

TABLE 2.—Daily precipitation for September, 1909. District No. 7—Continued.

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| cNeilalvern | Ouachita | • • • • • | ••• | • • • • | ; | · • • • • | | 2 . i | | • • • | • • • • | •••• | Ť. | - | <u> </u> | $\mathbf{T}^{[\cdot]}$ | j: | ' | 10 | | • • • !• | | ::: <u>]</u> : | | i. 19 | . 10 | 37 | | | | 1::: | | | • • • • | • • • • | | · ; |
| ammoth Spring | Arkansas. do do Ouachits. Ouachita White. St Francis Ouachits. White. Arkansas. White. | ••• | | • • • • | ٠ | .03 | 1.3 | 5 | .] | .04 | | | .10 | 0 | | | . 1 | . 21 . | .07 . | | | | | | . 26 | .48 | | ļ | | | Ţ., | | | | | | 4 |
| arked Tree | St Francis | :::j:: | 03 | • | | | 1.0 | 5 | .' | . 25 . 31 | • • • • | . 37 | | T. | $\cdot \cdots$ | | - - | ••• | • • • • | :::¦: | • • • • | •••• | ·· | | 1. 96 15 | . 63 | •••• | | | • • • | 3 | | ΞĖ | ••• | • • • • | | . 3. 10 |
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| ount Neboewport (1) | Arkansas | | ••• | | | •••• | 4 9 | <u>.</u> | ÷ | ••• | • • • • | • • • • | ` | | - | ∵¦i∵á | 'n | | 14 | •••• | ···¦· | •••• | ••• | 03 | 72 | 35 | | | | | • | • - - • | •• - | | • • • • | | Ŕ |
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| ortland | Ouachita | •••• | | · • • • | | • • • • | <u> </u> | ŤΤ | :: | | · • · · | | | . . 3 | υ, . i | r. 1.0 | 4 | . 40 | т | ••• | ••• |)- | ::: | . 127 T. 1 | i. 10 I. 05 | 40 | 05 | | | | • • • | :::::: | : ': : :: | ••• | • • • • | :::: | 3. |
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| rren | Quachita | | | | | | | . | | | | | | 2 | 6 | | 4. | | . 21 . | !. | | | | | 2. 43 | | • • • • | ļ | ļ | | - | | : | | | | 2 |
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| nne]] | do | | | | | ļ; | .7 | 8 | Ĭ. | •••, | . 20 | | | . j . i | ο | | • • | | 05. | | | | | | . 54 | . 89 | i. 15 | | | | | | : | | | | 4 |
| nne Mississippi. guilla | Veron | j | 1 | Ì | ! | ļ | ì | Ì | | j | | Ì | T | 1 | | | 1 | | 87 | i | 1 | | 1 | $_{\mathbf{T}}$ | 2 7F | ! | | 1 | | ١ | ţ | 1 | Ì | İ | | 1 1 | ا ا |
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| rksdale | Yazoo | 1 | | | | | T. | | | | | | | | Ж. | | | | i. | | • • • • | | :::J. | | 2. 00 | .30 | . 21 | 1 | | | | | | | | | . 2 |
| feeville | do | | | | | т. | <u>.</u> إ | j T | . - | | ;; | .01 | T. | . · . 2 | 0 | | - - | | . 11 | ٠ | ! | | ••• | т. д | 2. 05 | | .06 | ķ | | | | ' | •• | ••• | | • • • • • | . 2 |
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| enville | Yazoo | 1 | •••• | | | ••• | ¦· · · | • ••• | ÷ | ••• | | - • • • | · | . .0 | ა | T | • [| .04 | 311) | .32 | ••• | •••• | ť. Í | Ť. | 3. 52 2. 86 | .04 | . 72 | | 1:::: | | | | ::j· | | • • • • • | 1 | - 4 |
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| lly Springs | do | | ••• | | | T. | 1.2 | 2∷ | | | . . | | | 1 | ő | | | | | • • • • • | ::: | | | | i. 33 | .80 | .06 | T. | | | | | | | • • • • | | 3 |
| sciusko | Big Black | | .06 | | | | ٠ | <u>.</u> | • | . 06 | | | | 0 | 3 | ' | - - | • | . 45 | . 80 . | | ••• | . 25 | | 1.34 | .06 | | | | | | ļ | •• - | ; | | | 3 |
| te Comorant | Yazoo | •••• | •••• | i | • • • • | . 20 | .6 | 2 | ·· | ••• | • • • • | · • • : | •••• | • • • • | • • | ••••• | - | ••• | • - | | ••• | · - | ···¦ | · · · · ; | 2.26 2.40 | | .50 | | | | • • | | •• | | • • • • | | 1 3 |
| lone | do | | | | | .30 |) | | | | | | | . 4 | i | | | | | | • • • • | | | ĥ | . 90 | . 25 | - 20 | | | | | | | | | | 2 |
| mmark ck Hill wards d. yette senville senwood mads rnado klory Flat lly Springs se Comorant se Comorant tohes tohes tohes tohes ley Albany ntotoc | do | · • • • • | • • • • | • • • • | | ļ | | -¦ | - | . 33 | . . | . . | - | 1 | 1 | | | ٠ | - | ••• • | ٠.,٠ | ••• | ••• - | | 2. 58 | . 23 | ¦ | •••• | | j | .¦ | | - | ••• | • • • • | | 3 |
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| rt Gibson[| Mississippi | •••• | • • • • | | .10 | ; ;; ;; | | | ٠·ŀ٠ | ٠٠٠, | • • • • | Т. | T. | . 9 | ο, | T | | ••• 1 | т | ••• | ¦ | ••• | • • • | т. ; | 3.00 | .05 | ¦ | | | · · · · | | •• •• | •- • | | • • • • | | 1 |
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| occe. folk | Mississippi | | •••• | | • • • • | 1 | | | 1 | ••• | . 55 | •••• | 1.0 | 3 7 | ี 'ำ | r. T | ٠: ٠ | T | 28 | •••• | ••• • | | $\mathbf{r} \cdot $ | . 50° | 1. 78 58 | 10 | ' · · · · | | | | | | :: | | • • • • | | 1 |
| n Lake | Yazoo | | | | | | | | - 1 | Ţ. | | ļ | | : : : : | | | | | | | | | | | 2, 00 | .30 | | | | | | | | | | | 1 |
| ula | do | · • • • • | ••••; | ;···· | | | · • • • | | •• | т. | • • • • | · • • • | 1.5 | 5 | • • • | •• •4 | ю,. | 1, | . 40 . | ••• | ••• | т. ј. | ••• | . 10 | 2.90 | ¦ | т. | | · · · · · | ··· | | | ••• | | • • • • | | U |
| Ca | Mississippl | !- | | .36 | | | T. | Ţ̈́T | . [| . 51 | | [:::: | 3 | 5∵ò | 2 | :: i::i | 5 . | | . 13 . | | • • • {• | | Ce | .44 | 3. 50 | | | i | | | | | | | | | Ĥ |
| kaburg | do | • • • • • , | | .31 | Ţ. | | | · | ٠. | | ••• | ļ. | .2 | 9 | • ;• • | ∤ .6 | 3. | .• | .ΩL. | · · · - | • • • • | | .01 | . 64 | 2.07 | | Ţ. | | . - | | ٠,٠. | | • • - | | • • • • | | 1 |
| odville | do | •••• | 1. | . 58 | 1 | .u | • | 100 | | . 00 | . 07 | ተ: | 1.6 | n . n | Ŕ | i3 | • | را د است | .00. | ••• | • • • • • | • • • • • • | | 95 | 2, 20 1, 10 | .20 | т. | | | | - | :: :: | | | • • • • | | ľ |
| oo City | do | | | | | | | | . . | | T. | | | . 7 | ŏ | | | | | Ť. . | | | | , | 3, 02 | .02 | T. | T. | | | .J | | | | | | 1 |
| Lousiana. | Coort | - } | | 1 80 | J | ١,, | | | | | 30 | | | İ | | ١, | 10 | l l | 10 | 94 | | 1 | Į, | 1 20 | 1 79 | ۵, | ŀ | | | | | | | - | | | l, |
| randria | Red | | . 10 | | <u>'</u> | | | | | | | . 3 | | í::: | | 5 | ίοi. | | | 30. | | | | | 2. 20 | .01 | ĺ | | | | | | | | | | ! ; |
| ite | Coast | ' | т. | ļ | ! T. | · | | | - | т. | | 2. 13 | .6 | 5 .1 | 0 | 4. اير | 15 | . 13 | | . 15 . | •••] | - | ••• | . 24 | . 50 | ' | | T. | | | | •• •• | ••• | | • • • • | | 1 |
| on Kouge | do | | ••• | 48 | 05 | | • | ∄∺ | | ••• | • • • • | . 20 | | | ់ កំ | 4.ວ Γ. ∣ | | . 90 ₁ | ••• | | · • • • • • • • • • • • • • • • • • • • | | T. | . 60 |). W | | | | | 1 | | :: :: | ::: | | • • • • | | : (|
| rwood | do | | | | | | | : | | , | | T. | | | | 2 | 0 | .30 | 20 | . 64 | . 73 | | . 30 | . 50 | | | | T. | | | | | | | | | 1 |
| houn | Quachita | · • • • | •••• | ļ . | • • • • | | . .6 | 9 | ٠ŀ | ; | • • • • | - - | . 5 | 4 j | • • • | ••• | • • | ••• | ••• | | ••• | | • • • | . 40 | 2. 10 | ;· · · · | | | | | • • • • | •- | •• | - | • • • • | - · · · ;i | į i |
| neyville[[] | Red | | .48 | | | | | | | | • • • • | | | :1::: | | | | | | .08 | | ::: <u> </u> | | | 3, 20 | | [:::: | | | | | | | | • • • • • | | Ė |
| ton | Coast | | | T. | T. | ļ | | | | . 56 | | . 6 | 0. | 3 | . . | 81 | | .34 | | T. . | | | | | 5. 90 | | ļ | | | | | | - | | | | H |
| inston | Cosst. | ····i | 27 | | 27 | , | . • u | 7 | •• | т∵∣ | | · | 1.3 | 3 | 1 | ոս | ·÷ | • • • • • | . 07 · | 28 | ••• | •••;• | •••• | . 00 07:3 | 35 | ·т. | | | | 1 | | | • | ••• | • • • • | | Ľ |
| lson | Red | | | | | | 1, | | ١), | ••• | | .80 | 3 | | 1 | | | | | . 20 . | | | | .44 | i. 62 | | | | | | | | ::: | | | | 1 |
| aldsonville | Coast | ; ' | т. ј | ļ. . | .;- · · · | , .0 | <u>.</u> | ۰۰۰ اند | ٠,٠ | ••• | · • • • | ••• | · ··· | -! | . 2 | <u>ŗ</u> . j | - | | • • • | т. ,. | | | | . 35 | 1. 6 0 | | | | | | | •• •• | - | | • • • • | | Ľ |
| riday | do | · ::: | | | | | 1.3 | 9 | ı, | ::: | • • • • | • • • • | Ġ | 8 | 1 | | | | <u>:::</u> [: | :::: | ::: : | | 6 | 3. 35 | | | | | | | | | | :::/i | | [::::] | ļ |
| nklin | Coast | | Τ. | 19 |) | . 20 | Ť | . [| Ţ, | | | | ¦∵í | δ | | C9 T | . [| .01 | li | . 02 . | | | [| .31 | 5. 40 | .02 | | Τ. | ļ | | | | | | | | |
| coo City | Ked | · - | ••• | | | in. | · | 1.8 | ś5 . | ¦ | | · · • · | · | ٠ | يا | | - - | ••• | . 71¦. | · - | • • • • • | | راِ | 9.02 | L. 09 | | į | | | ··· | - | ···· | - | | • • • • | | ľ |
| mmond | do | i. | . 10 | . /5 | | 1. | ••• | : T | , j | , 7C | . 35 | . 69 | Ť | 2 | ٠ | . 1 | 5. | | : : · | ::: | | | ? | 3, 20 | | | | | | | | | | | | [::::] | ľ |
| uma | do |]. | | | | | | <u>.</u>] | ٠,٠ | | | ļ | J | | ٠,. | | - - | ٠. امو | ∤. | | • • • • | . | [| | | | ļ | | ļ | | | | [. | | • • • • | | ŀ |
| nings | do | | . 24 | | · · · · | 1.10 | .4 | 5 | -∤- | ••• | • • • • | · 🔐 · | .2 | ž | ÷ | | -[- | . 28 | ÷⊹ | ••• | • • • • | | ···j· | | . 65° ເດດ | | | ···· | · · · · | | -{ | ∤ | • • - | ••• | • • • • | / | 1 |
| ke Charles | do | | • • • • : | | | | 1.3 | i ∷' | | ::: | • • • • | • • • • • • | | | | ĭ.i∷i | 2 | . 17 | •• i | | • • • • | | | . 02 | 2. 57 | | | () | | | | | | | | :::: | 1 |
| keside | do | | | · · · · | <u></u> | | ٠ | . . | 18 . | | •••• | .7 | | | . · · | | | . _{این} | 49 . | . این | ••• | | i | . 30 | . 25 | ļ | ļ | | | | | | . | | | | 2 |
| mmond uma uma ayette ke Charles keside wrence erty Hill anaport dden | Red | · · · · · | | •••• | . 10 | 1 .44 | | <u>.</u> | - - | ••• | . 40 | I. | ••• | . .3 | 8 | 37 T | | . 25 | ••• | . 45 | ••• | •••• | $\mathbf{r}^{\cdot \cdot}$ | | s. 20 2, 75 | | | | | | 1 | · · · · | | ::: | •••• | | 3 |
| gansport | Sabine | | | | | | .'' | | Ю. | ::: | • • • • | | | | ::: | **: 1 | | | 40 | | | | •: | | i. 30 | | | | | | | | :: : | | | | 1 |
| | Pad | | | l | 1 | 1.59 | 1 | 1. | J. | | | Т. | 1 | | 1. | 1.1 | -1 | - T | - 1 | - 17 | | | . 1 | T. i | 3. 90 | 1.12 | 1 | 1 | 1 | 1 | 1 . | 1.7 | ľ | -1 | | 11 | 1 2 |

MONTHLY WEATHER REVIEW.

TABLE 2.—Daily precipitation for September, 1909. District No. 7—Continued.

| | | | | | | | | | | | | | | | D | ау | of m | onth | ١. | | | | | | | | | | | | | |
|-----------------|---------------|--------|---------|----------|------|--------|-------------|------------------|---------------|---------------|--------------|--------------|---------|------------------------|-----------|---------|---------|-----------|-------------|-----------|---------|-------|-------------|------------|-------------|------|---------|-----------|-----------|-------------|-------------|-------------|
| Stations. | River basins. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 |
| uisiana—Cont'd. | İ | 1 | İ | | İ | 1 | | | [| | | | | | | | | | I | i | | | | | | ı | ĺ | | | | | |
| roe[| Ouachita | | | | | | | | | | | 1.12 | | | | | | | | | ' | 1.98 | T. | | | | | | | | l | |
| gan City | Coast | | | | | | | | | | | | | | | | | | | | | 2.08 | | | | | | | | | | |
| liton | Mississippi | | | | | | ļ . | | | | . 15 | | | . 10 | | | ! | | | | Т. | 2.75 | | ļ. | ļ | | | | | | | |
| [berta | Coast | . T. | .40 | | | | | | | | | | | . 20 | . 20 | | | | | | 6. 50 | 1.00 | | . . | 1 | | | | | | . | |
| Orleans (1) | do | | . 56 | i | | | . 25 | T. | .05 | . 05 | T. | | | 1.38 | . 78 | | | | | | | | | | | | | | | | | |
| Orleans (2) | ldo | | . 07 | 1 | | | .07 | . . | .41 | . 15 | | | | . 99 | . 19 | | | | | | 4.65 | | | ¦ | | | | | | | | . . |
| Orleans (3) | Coast | | 1,08 | ۱ | . 28 | | l. . | . . | . 12 | | | . | | 1.42 | . 98 | | | | | . 06 | 4.33 | | | . | | | | | | | | . |
| Orleans (4) | do | | .04 | | l | | .04 | .02 | | .11 | | | | .97 | . 17 | . 01 | | | | .08 | 4.60 | .01 | | | | | | | | | | |
| Orleans (5) | do | | .07 | í | | | . 56 | . C1 | . 15 | . 20 | | | | . 59 | 1.08 | أدرر | | | | .06 | 4.34 | .02 | . . | . | . . | | | | | . . | l l | |
| Orleans (6) | do |] | .40 | | 1 | | . 25 | | .02 | . 05 | | | | 1. 10 | .80 | .06 | | | 1 | . 09 | 4.38 | .02 | | l. | . . | | | | | | l. . | |
| Orleans (7) | do | | 45 | | | | | | .01 | | | | | . 50 | . 03 | . 18 | | | 1 | . 04 | 4.38 | | | | | | | | | | | |
| Orleans (8) | do | | 33 | 1 | | | | | 0.5 | 05 | .04 | | | .50 .30 | . 15 | . 05 | | | | . 09 | 3.54 | . 01 | | | | | | | | | | |
| usasiii | do | 31 | | .05 | | 25 | ı. . | · <i>•</i> · · · | | Ť | | | | | | | | | | - 1 | | 5 54: | | l | | | 1 | | | | | |
| Dealing | Quachita | | | | | 1 - 20 | ···· | | · ·· · | . | | 35 | | | •••• | | | | | ۱۰ | 35 | . 49 | | 35 | | | | | | | | •••• |
| ell | Coast | T | | | | | | | | Ť | | | | T I | • • • • • | 60 | | | | | | 2 00 | | | | | | | | | ı | •••• |
| ve | do | 1 6 | | | | | ļ. • • • | | . 20 | | | | 2.1 | ۱ - ۱ | 40 | .00 | •••• | | | | | 3 03 | | | | | | | | | | •••• |
| inell | Red | | | | | | | | | | · • • • | •••• | .01 | | • • | | ·÷ : | | | · · · · · | | 1 99 | | | | | | 1 ! | | | 1 | •••• |
| ипейй | | | | | ···· | | | | | | ···· | | | | | •••• | *. | | | •••• | 50 | i 50 | •••• | | | | | | •••• | • • • • • | | •••• |
| veriif | Coast | T. | | | | | | | | • • • • | | | | | | •••• | 58 | . 19 | •••• | | 2 10 | 1 63 | T | | | | •••• | | | | | •••• |
| | Coast | . 1. | | | | | | | | | . 10 | | | . 10 | . (4 | - • • • | . 50 | . 19 | | •••• | 2. 10 | 300 | 2.1 | | | | | | | | i | •••• |
| eport | Red | - | | | ļ | .03 | · • • • | | | | [] | . 13 | 1. | انهنا | . 10 | •••• | •••• | | . | | . 20 | 0.20 | 10 | | | | • • • • | | • • • • | | | • • • • |
| esport## | Red | • •••• | · · ::: | | · · | | | | :::: | · · · · · · · | | . 34 | • • • • | . 04: | ·#: 1 | • • • • | •••• | | · • • • ļ · | اغف | 4.00 | 3.00 | ندا . | | .01 | | • • • • | | •••• | • • • • | | • • • • |
| ern Univ. Farm. | Coast | | | | | | | · • <u>: :</u> | 1.30 | .05 | 1. | | • • • • | . 55 | 1. | • • • • | •••• | | · ļ | . 05 | *. UU | | • • • • | · • • • | | •••• | • • • • | •••• | • • • • • | • • • • | · · · · · | •••• |
| rancisville ¶ | Mississippi | ٠ | | !- • • • | | | | .57 | · • • • | ' | _ا | ļ. . | • • • • | · • • · · ['] | | | | · • • • ¦ | | | • • • • | a | | · • · · | ļ. . | | • • • • | · · · · · | •••• | • • • • | · • • • · | • • • • |
| town | Red | | | | | · • | | | | | | | | | • • • • | •••• | • • • • | | • • • • • • | · · • •¦ | •••• | .61 | • • • • | | , | | | | • • • • | • • • • | | • • • • |
| lah | Mississippi | · | | | | .07 | | ١ | ٠ | | . 28 | | | | | ! | | ' | | ! | | J. 40 | | | | | | - • • • | | | | |

a indicates 13.50.

Table 3.—Maximum and minimum temperatures at selected stations, September, 1909. District No. 7, Lower Mississippi Valley.

| | | | Colo | rado. | | | <u> </u> | New I | Mexico | | | Те | xas. | | | | , | | Ka | nsas. | _ ` | | | | | Oklai | homa. | |
|--|---|--|----------------------------|----------------------------|--|--|---|-------------------------------|---|---|--|---|--|--|-----------------------------|----------------------------|--|---|---|---|---|---|--|--|---|---|--|---|
| | | Lamar. | | Leadville. | : | Pueblo. | | Albert. | i (| Сішаноп. | | Amarillo. | | Paris.§§ | | Dodge City. | | Ellinwood. | | Iola. | : | Liberty. | | Wichits. | | Ardmore. §§ | | Bartlesville. |
| Date, | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Mid. | Max. | Min. | Max. | Min. | Max. | М1ш. |
| 1 2 3 4 5 | 100 98 92 83 66 | 64 60 64 61 51 | 64 67 63 59 51 | 42 43 40 38 40 | 89 92 87 70 56 | 59 59 59 56 51 | 96 98 92 83 91 | 65 68 69 62 59 | 86 86 83 69 65 | 47 49 52 49 53 | 95 95 92 90 70 | 62 68 65 65 60 | 96 99 99 100 99 | 71 72 72 73 74 | 94 96 100 79 76 | 70 73 67 63 54 | 90 94 95 85 80 | 67 72 64 66 51 | 88 94 96 90 78 | 67 69 68 65 57 | | | 87 95 96 88 80 | 68 74 68 66 56 | 97 100 100 100 93 | 69 70 72 72 72 69 | 96 98 102 104 84 | 68 71 73 78 64 |
| 6 7 8 9 10 | 78 75 85 87 92 | 57 58 62 61 60 | 54 57 58 64 61 | 39 40 37 32 34 | 71 73 80 77 82 | 54 58 54 55 55 | 79 81 85 85 85 83 | 59 60 61 59 60 | 73 76 77 72 70 | 55 49 47 49 50 | 88 87 88 87 89 | 62 65 62 60 62 | 98 100 101 102 105 | 72 71 71 71 71 72 | 90 70 88 92 93 | 65 59 63 69 67 | 88 73 89 94 95 | 63 61 63 67 63 | 87 83 93 95 95 | 62 68 68 70 68 | | | 86 80 90 93 92 | 64 67 66 68 70 | 97 101 100 101 105 | 70 71 69 70 69 | 93 82 98 101 101 | 65 70 74 73 68 |
| 11 12 13 14 15 | 93 87 64 78 84 | 60 60 48 43 43 | 61 56 42 53 63 | 35 34 26 25 29 | 85 67 56 74 77 | 61 45 43 43 44 | 81 84 86 78 78 | 61 63 51 46 55 | 70 72 63 68 71 | 48 50 42 37 40 | 90 85 69 76 77 | 66 67 49 46 48 | 106 103 99 86 91 | 73 74 73 72 62 | 95 91 70 74 80 | 68 64 53 51 51 | 98 95 75 75 81 | 65 64 64 53 51 | 99 97 93 73 76 | 68 76 68 60 54 | | | 95 96 82 74 80 | 71 75 65 57 53 | 105 102 99 81 85 | 72 74 75 62 59 | 102 101 97 79 81 | 67 74 73 65 55 |
| 16 17 18 19 20 | 87 83 89 81 91 | 46 45 59 49 57 | 64 62 53 56 60 | 32 31 33 33 35 | 81 77 81 82 84 | 48 44 52 46 52 | 79 77 86 89 87 | 49 49 53 56 54 | 72 74 76 78 80 | 41 38 41 45 42 | 80 78 85 88 80 | 52 50 61 60 50 | 91 92 94 98 94 | 62 61 58 59 65 | 85 83 84 86 86 | 55 52 62 56 58 | 90 87 84 90 88 | 56 53 57 59 57 | 84 89 88 88 89 | 49 56 59 64 64 | | | 86 88 85 87 88 | 55 60 61 64 63 | 90 93 93 96 94 | 59 56 55 67 64 | 86 93 92 92 93 | 51 57 60 62 62 |
| 21 22 23 24 25 | 79 80 86 84 85 | 53 40 45 40 42 | 54 44 57 59 66 | 40 17 22 25 34 | 73 57 66 76 79 | 44 44 36 39 42 | 91 73 71 78 81 | 56 46 42 44 44 | 81 66 68 79 79 | 46 35 32 36 41 | 91 68 74 78 79 | 58 48 45 50 49 | 96 96 86 86 86 | 68 69 56 51 51 | 82 67 74 80 81 | 58 47 47 47 56 | 90 72 78 84 85 | 60 53 44 42 48 | 87 69 74 79 79 | 62 53 44 45 49 | | | 87 70 75 81 81 | 65 55 45 51 52 | 97 81 80 86 86 | 63 73 52 47 48 | 94 74 77 84 83 | 62 61 46 45 40 |
| 26 27 28 29 30 | 83 82 82 85 85 | 58 51 37 38 46 | 65 67 68 67 64 | 32 33 34 37 33 | 81 75 81 79 81 | 46 45 42 45 45 45 | 75 75 83 85 84 | 45 43 46 53 51 | 73 73 77 81 81 | 39 34 38 41 42 | 76 75 81 86 84 | 47 46 46 46 52 | 82 81 82 91 93 | 51 47 46 46 48 | 78 74 82 85 85 | 48 45 47 47 49 | 80 77 87 91 91 | 46 41 40 44 45 | 72 71 78 88 84 | 46 40 36 48 53 | | | 74 71 80 88 87 | 51 44 45 51 58 | 80 78 83 90 93 | 49 46 41 44 51 | 75 73 73 92 92 | 46 42 40 48 48 |
| Mns | 84.2 | 52.0 | 59.3 | 33.6 | 76.3 | 48.9 | 83.1 | 54.3 | 74.6 | 43.6 | 82.9 | 55.8 | 94.4 | 63.7 | 83. 3 | 57.0 | 86.0 | 56.0 | 85. 2 | 58.5 | ļ . | | 84.7 | 60.3 | 92.9 | 61.9 | 89.7 | 60.5 |
| | | | <u> </u> | <u> </u> | <u> </u> | <u>'</u> | <u> </u> | <u> </u> | <u></u> | <u> </u> | <u>.</u> | ! - | <u></u> . | <u>!</u> | | | | <u> </u> | <u></u> - | <u></u> | : | <u></u> | == | <u> </u> | <u></u> | <u> </u> | <u></u> - | <u></u> |
| | | | 1 | | | | Oklah | oma. | | <u> </u> | <u></u> | | <u>. </u> | | | · | · | <u> </u> | Miss | ouri. | <u></u> | | ·=================================== | <u> </u> | <u>. </u> | <u> </u> | <u> </u> | <u> </u> |
| | | End. 22 | | McAlister. | : | Mangum.§§ | İ | Muskogee. | <u> </u> | Oklahoma. | | Weatherford.§§ | | Woodward. | | Caruthersvine. | | Ironton.89 | | ouri. | · | Olden. | · ·-·· = | Springheid. | | Lynnville, Ay. | E | Jackson, Tenn. |
| Date. | Max. | SS STORY | Max. | McAllster. | Max | | | | ! | 1 | Max. | · ··- | Max. | Woodward. | Max. | Caruthersylle. | : | Min. | | Lamar.83 | Max. | | | <u> </u> | | | Max. | Jackson, Tenn. |
| 12 23 34 | | Min. 68 69 66 70 | Max. | Min. | Max. 97 98 98 98 | | | Muskogee. | ! | 1 | | · ··- | | 70 74 71 66 | Max. | Min. | : | | | Lamar.83 | | | | Springheid. | | | | |
| 1 2 3 4 | 96 100 102 102 79 93 92 97 | 68 69 66 70 61 64 68 68 | Max. | Min. | 97 98 98 94 100 92 100 98 99 | 72 70 69 70 | Max. 97 101 106 105 | Min. 73 76 75 74 | 92 97 97 98 | Min. 68 69 73 69 | 98 100 100 101 | Min. 69 73 73 71 | 97 102 101 99 | 70 74 71 66 60 63 69 68 62 | Max. | Min. | 85 81 97 94 80 84 67 85 95 | Min. 52 49 63 66 62 48 58 | 98 91 103 100 | Min. 65 65 65 69 | Max. 89 82 95 90 | Min. 53 57 60 70 | Max. 90 80 96 95 | Min. 66 61 73 67 | Max. 83 87 91 | Min. 56 55 65 75 | Max. 96 94 97 97 88 | Min, 61 56 68 78 |
| 1 2 3 5 6 7 8 9 10 11 12 13 14 | 96 100 102 102 79 93 92 97 100 101 101 82 79 81 | 68 69 66 70 61 64 68 68 65 65 | Max. | Min. | 97 98 98 94 100 92 100 98 99 101 100 101 75 78 | 72 70 69 70 62 62 68 69 63 | Max. 97 101 106 105 89 94 99 102 104 106 107 104 94 94 | Min. 73 76 774 66 67 69 72 74 | 92 97 97 98 77 92 97 95 97 99 100 97 92 77 81 | Min. 68 69 73 69 65 68 70 70 72 | 98 100 100 101 77 93 96 95 100 102 101 98 86 78 80 | Min. 69 73 73 71 63 66 74 70 68 69 72 78 69 51 55 | 97 102 101 99 78 93 91 97 98 99 98 96 86 86 81 | 70 74 71 66 60 63 69 68 62 68 76 75 65 51 48 | Max. | Min. | 85 81 97 94 80 84 67 85 91 91 92 91 88 | Min. 52 49 63 66 62 48 58 63 70 | 98 91 103 80 89 78 89 99 102 104 102 97 | Min. 65 65 65 65 65 65 65 65 65 65 65 65 65 | Max. 89 82 95 95 75 80 74 87 96 97 90 94 92 89 78 | 53 57 60 70 63 57 65 64 70 | 90 80 96 95 72 92 94 93 93 93 976 76 | Min. 66 61 67 61 69 67 72 | Max. 83 87 91 90 80 83 73 82 93 88 91 90 88 79 | Min. 56 55 65 66 67 69 | Max. 96 94 97 97 88 88 88 85 83 97 97 94 89 88 | Min. 61 56 68 78 70 60 63 70 69 67 |
| 1 | Max. 96 100 102 102 79 93 92 97 100 101 101 101 101 82 79 81 88 90 92 94 | Min. 68 69 66 70 61 64 68 68 66 65 65 65 65 52 50 53 55 | Max. | Min. | Max. 97 98 98 94 100 98 99 101 100 101 75 82 88 90 91 91 92 | 72 70 69 70 62 62 68 69 63 67 65 66 68 | Max. 97 101 106 105 99 102 104 106 107 104 84 94 94 93 | Min | 92 97 98 77 98 77 95 97 99 100 97 97 81 85 89 90 | Min. 68 69 73 69 65 68 70 72 71 73 74 66 54 55 60 68 68 | 98 100 100 101 77 93 96 95 100 102 101 98 86 86 90 88 89 93 | Min. 69 73 73 71 63 64 70 68 69 72 78 69 51 55 52 64 65 | 97 102 101 101 109 78 93 99 98 99 98 86 86 81 87 87 87 87 87 88 88 | 70 74 71 66 60 63 69 68 62 68 75 65 51 48 52 53 57 55 | Max. | Min. | Max. 85 81 97 94 80 84 67 85 91 92 91 92 91 88 80 83 86 88 | Min. 52 49 63 66 62 45 58 63 70 65 61 63 66 60 45 44 48 59 | Max. 98 91 103 100 80 78 89 91 102 104 102 97 81 83 87 94 91 88 91 | Min. 65 65 69 72 73 68 | Max. 89 82 95 90 75 80 874 877 96 97 90 94 92 89 78 79 82 84 88 88 | Min. 53 57 60 70 66 68 66 70 67 | Max. 90 80 996 95 72 94 94 94 94 95 80 86 86 88 88 88 | Pieugunida Min. 666 6173 67 61 62 67 72 72 62 66 61 62 69 | Max. 83 87 91 90 88 87 89 88 88 88 88 88 88 88 88 88 88 88 88 | ************************************** | Max. 96 94 97 97 88 88 85 83 97 97 98 98 98 88 88 89 88 88 88 88 88 88 88 | Min. 61 56 68 78 70 60 63 70 69 67 69 67 57 51 53 59 67 |
| 1 2 3 4 5 6 7 8 10 11 12 14 15 18 19 20 21 22 22 22 23 24 22 | 96 100 102 179 93 92 100 101 101 101 82 90 90 90 90 90 90 90 90 90 90 90 90 90 | Min. 68 69 66 70 61 64 68 68 66 65 65 65 65 68 67 56 53 55 56 63 61 45 43 | Max | Min. | 97 98 98 94 100 92 100 98 99 101 100 101 100 101 175 78 82 88 89 90 91 91 92 97 82 83 85 85 85 85 85 86 86 86 87 88 88 88 88 88 88 88 88 88 88 88 88 | 72 70 69 70 62 68 69 63 67 65 52 52 55 55 55 59 48 48 48 | Max. 97 101 106 105 89 94 99 102 104 107 104 84 94 93 94 93 94 93 79 95 79 | - 9380 48 m M In | Max. 92 97 97 98 77 98 97 99 100 97 77 81 85 89 89 90 90 92 79 682 82 | Min. 68 69 73 69 65 68 70 72 71 73 74 66 56 56 56 68 68 68 64 48 56 52 53 | 98 100 100 101 777 93 96 95 100 1002 1002 101 98 86 87 89 93 76 89 88 89 93 85 85 | Min. 69 73 73 73 71 63 63 64 70 68 69 72 78 69 51 55 62 65 63 61 43 48 52 | 97 102 101 99 78 93 91 97 99 99 98 96 86 86 87 86 88 87 88 88 88 88 88 88 88 88 88 88 88 | Min. 70 74 71 66 60 63 62 68 76 75 53 58 57 55 60 57 40 48 47 | Max. | Min. | 85 81 97 94 87 85 80 80 80 88 88 88 88 88 88 88 88 88 88 | Min. 52 49 63 66 62 45 58 63 66 63 66 60 45 44 46 48 48 60 64 60 52 38 38 | 98 91 103 100 80 102 104 102 97 81 83 87 94 99 19 88 87 17 77 83 79 | 88-19 UB97 Min. 655 65 65 65 65 65 65 65 65 65 65 65 65 | 89 89 82 95 90 75 80 74 87 89 89 92 89 82 84 88 83 75 87 70 75 71 | Min. 53 57 60 70 63 57 65 64 70 66 68 68 67 57 58 59 51 54 37 60 49 42 45 | 90 80 95 72 94 93 93 93 95 76 76 80 85 84 85 81 75 69 68 74 71 | Plagatida Min. 66 61 67 72 72 72 72 72 62 55 51 60 61 62 52 49 | 83 87 91 90 88 88 89 91 88 88 89 88 89 88 89 88 89 88 89 88 89 88 89 88 89 88 89 89 | ************************************** | Max. 96 94 97 97 88 88 88 85 87 97 97 88 89 87 87 87 87 | Min. 61 56 68 78 60 63 70 69 67 67 67 51 53 69 67 63 69 61 48 |
| 1 2 3 4 6 7 8 10 11 14 15 18 19 20 21 22 21 22 22 | Max. 96 100 102 102 102 102 102 101 101 101 182 79 81 88 90 90 90 94 93 85 87 76 88 87 | Min. 68 69 66 70 61 64 68 68 68 66 65 55 55 58 63 61 45 43 49 47 43 35 35 | Max | Min. | 97 98 98 94 100 92 100 98 99 101 100 101 75 78 82 88 90 91 91 92 97 82 85 78 85 78 | Min. 72 70 69 70 62 62 68 69 63 67 65 65 52 52 52 52 55 54 48 | Max. 97 101 105 89 94 99 102 104 94 94 94 93 94 93 79 93 79 95 | 93803861W Min | Max. 92 97 97 98 77 98 97 99 100 97 92 97 81 \$55 89 90 92 97 82 | Min. 68 69 73 69 65 65 770 721 73 73 74 66 56 56 68 68 68 68 68 68 68 68 68 68 68 68 68 | 98 100 100 100 100 100 100 100 100 100 10 | Min. 69 73 73 73 763 663 69 74 75 55 52 65 65 63 63 43 48 | 97 102 101 199 78 93 91 97 99 98 96 86 81 87 87 88 93 89 99 | Min. 70 74 71 66 63 69 68 62 68 76 65 51 48 52 53 58 57 55 60 48 47 42 35 34 47 | Max | Min. | 85 85 84 87 85 99 91 88 80 88 88 88 88 88 88 88 88 88 88 88 | Min. 52 49 683 666 62 48 58 63 66 66 60 45 44 46 48 59 52 38 | 98 91 100 80 89 99 99 99 99 91 102 104 102 97 81 83 87 94 91 58 87 17 77 83 | 88.18 UND 1 65 65 65 65 65 65 65 65 65 65 65 65 65 | 89 82 95 96 97 75 80 74 96 97 89 82 89 85 85 86 87 87 87 70 75 | Min. 53 57 60 63 57 65 64 70 66 68 66 67 58 59 51 54 49 49 42 | Max. 90 80 96 95 72 92 94 94 94 94 95 86 87 76 68 77 73 83 83 83 83 84 85 85 85 85 85 85 85 85 85 85 85 85 85 | **Plausurida** Min. 66 61 67 72 72 67 62 55 51 60 62 46 69 64 52 46 52 | 83 87 91 90 83 82 93 88 88 89 190 77 80 77 80 83 83 83 85 87 78 87 87 | ************************************** | Max. 96 94 97 97 88 88 88 85 87 97 97 88 88 89 87 87 87 87 | Min. 61 56 68 78 70 69 67 67 67 67 67 67 67 67 67 67 67 |

Table 3.—Maximum and minimum temperatures at selected stations, September, 1909. District No. 7—Continued.

| | | Tenn | lessee. | ABUI | | -141 (6.4 | | | mini | | pe | 1 (66 (67 6 | | kansas | | <i>-</i> | эв үчв п | | | <i>D</i> 600 | 1 606 11 | /o. 7 | | | | ssippi. | | |
|--|---|----------------------------|----------------------------|----------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|-------------------------------|----------------------------------|------------------------------|----------------------------------|----------------------------|----------------------------|-----------------------------------|----------------------------------|----------------------------------|----------------------------|------------------------------|----------------------------|--------------------------------|----------------------------|-----------------------------|----------------------------|-------------------------------|----------------------------------|
| | ; | Memphis. | | Union City. | | Bentonville. | | Corning. | : ا | Dardanelle. §§ | | Eldorado. §§ | ; ; | Fort Smith. | | Little Kock. | | Fine Bluff. \$8 | - | lexarkana. \$\$ | : | Wynne. 8\$ | | Clarksdale.\$\$ | | Cornth.§§ | | Creenville.88 |
| Date | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. |
| 1 2 3 4 | 92 88 94 88 75 | 69 63 77 72 67 | 89 92 94 96 90 | 63 63 54 72 64 | 93 92 100 98 79 | 71 71 70 70 67 | 88 84 99 97 91 | 56 54 70 78 67 | 100 99 104 100 95 | 63 68 69 70 73 | 99 99 98 99 96 | 66 63 70 74 70 | 87 97 101 98 78 | 74 71 74 76 69 | 93 93 98 96 74 | 69 66 74 68 69 | 100 98 100 100 83 | 63 64 70 72 72 | 101 102 100 100 95 | 68 69 73 74 72 | 94 96 103 101 74 | 57 62 64 76 69 | 94 97 98 98 98 | 60 60 68 72 72 | 94 95 93 96 86 | 70 62 65 71 71 | 96 99 98 99 93 | 64 68 71 73 72 |
| 6 7 8 9 10 | 83 78 90 93 92 | 64 72 71 76 75 | 86 90 92 94 90 | 55 56 69 70 69 | 89 83 96 97 100 | 64 71 69 71 68 | 82 80 89 94 93 | 56 64 68 69 69 | 91 96 104 101 104 | 66 68 76 71 69 | 92 98 100 100 103 | 67 70 71 73 73 | 90 96 99 99 102 | 67 71 72 72 72 72 | 85 93 94 97 97 | 67 73 72 76 74 | 93 100 102 104 102 | 65 66 70 70 70 | 96 102 104 101 108 | 69 70 75 74 73 | 86 82 95 100 99 | 62 74 70 71 74 | 92 96 100 101 101 | 64 65 68 70 74 | 78 86 89 86 94 | 62 66 70 70 67 | 95 99 100 101 102 | 68 72 71 72 74 |
| 11 12 13 14 15 | 92 92 91 89 77 | 74 73 76 73 66 | 92 94 92 89 80 | 67 63 69 68 68 | 101 98 95 75 78 | 71 72 69 60 57 | 92 94 94 94 94 84 | 70 67 76 70 67 | 102 102 98 93 87 | 70 73 71 70 67 | 100 99 97 95 82 | 73 72 71 70 70 | 104 100 95 80 85 | 75 74 74 68 64 | 90 93 92 89 80 | 74 75 73 70 69 | 100 98 98 98 98 84 | 70 70 67 66 66 | 98 98 96 92 86 | 75 75 73 75 70 | 94 95 95 92 80 | 72 72 73 70 70 | 98 99 95 94 82 | 69 70 70 68 68 | 88 90 92 88 88 | 68 68 70 68 70 | 98 99 96 94 88 | 69 70 69 67 69 |
| 16 17 18 19 26 | 78 81 84 91 84 | 60 59 63 69 70 | 82 87 89 92 85 | 56 49 52 57 66 | 81 86 88 88 88 | 49 53 59 58 66 | 79 82 86 90 87 | 55 49 57 56 67 | 96 93 93 93 95 | 55 50 51 51 51 | 84 86 90 91 77 | 64 58 55 61 70 | 87 89 89 90 88 | 62 58 61 62 71 | 81 83 86 88 82 | 63 58 63 65 68 | 86 90 94 96 82 | 60 50 53 60 68 | 85 86 89 93 88 | 64 58 58 61 66 | 81 83 88 90 84 | 55 47 50 54 69 | 85 85 92 94 84 | 63 51 52 55 71 | 86 82 83 88 88 | 64 55 58 60 70 | 87 88 93 94 79 | 65 60 59 60 71 |
| 21 22 23 24 25 | 73 86 71 70 70 | 63 67 58 53 53 | 75 87 83 77 76 | 63 68 60 45 50 | 84 78 72 78 78 75 | 66 55 47 42 48 | 80 87 83 76 70 | 63 66 68 43 46 | 84 94 79 82 78 | 67 66 56 46 45 | 88 92 79 78 76 | 66 67 65 49 49 | 91 89 76 81 81 | 70 65 57 48 50 | 84 90 73 74 72 | 64 65 61 54 56 | 82 84 80 79 80 | 62 70 63 53 49 | 90 98 80 78 78 | 68 70 67 52 52 | 78 88 74 73 72 | 64 65 61 45 48 | 78 91 80 78 75 | 64 69 64 51 52 | 81 78 86 70 70 | 65 67 63 48 48 | 85 91 74 76 78 | 66 67 64 52 52 |
| 26 27 28 29 30 | 68 63 67 74 78 | 52 47 47 53 58 | 72 68 74 80 82 | 48 42 39 43 46 | 70 71 76 85 88 | 42 40 37 45 50 | 68 67 72 80 79 | 48 44 36 45 45 | 75 74 79 89 96 | 46 43 38 39 39 | 74 70 73 81 87 | 48 45 41 42 48 | 76 75 77 86 91 | 50 46 42 44 50 | 69 66 70 79 85 | 54 50 46 48 58 | 75 74 76 76 90 | 50 48 42 40 48 | 75 71 74 82 88 | 52 49 42 46 46 | 70 65 71 79 82 | 51 42 38 41 49 | 73 67 73 80 86 | 51 48 42 40 41 | 74 70 64 70 76 | 49 46 41 41 43 | 76 70 74 80 86 | 52 49 46 45 47 |
| Mns | 81.7 | 64.7 | 85.6 | 58.5 | 86.0 | 59.3 | 84.7 | 59.6 | 91.9 | 59.6 | 89.4 | 62.7 | 89.2 | 63.6 | 84.9 | 64.7 | 90. 1 | 61.3 | 91.1 | 64.5 | 85.3 | 60.5 | 88.3 | 61.1 | 83. 6 | 61.2 | 89.6 | 63.5 |
| | | | | | Missi | ssippi, | | | | | | _ | | | | | | Louis | iana. | | | | | _ | · · · | _ | | |
| | Date | • | | Kosciusko. §§ | | Natchez. \$9 | | Vicksburg. | | Alexandria.\$\$ | | Baton Kouge.§§ | | Covington, §§ | | Larayette. 88 | | Lake Cnaries. \$\$ | ! | Monroe.83 | | New Orlegns. | | Kobeline. §§ | | Schriever. 8\$ | | Shreveport. |
| | | | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. |
| 3 4 | | | 95 91 94 94 94 | 66 67 69 71 68 | 98 97 97 95 100 | 72 72 73 73 72 73 | 94 94 91 90 95 | 71 72 72 73 75 | 97 96 96 98 98 | 69 70 70 70 70 72 | 97 96 96 94 94 | 76 74 72 72 72 72 | 92 91 92 94 95 | 69 71 71 70 71 | 95 93 90 90 93 | 71 73 72 71 69 | 100 99 94 96 98 | 71 70 69 65 65 | 98 96 94 94 94 95 | 70 70 72 74 72 | 92 91 92 93 90 | 77 76 77 77 77 | 98 100 102 98 96 | 68 69 70 70 69 | 98 99 97 98 98 | 70 70 70 69 69 | 98 96 95 94 93 | 73 74 75 75 75 73 |
| 7 8 9 | | | 96 95 97 | 68 68 69 69 71 | 97 100 99 100 99 | 71 73 74 74 74 | 90 95 95 95 94 | 71 74 74 73 73 | 98 98 98 96 96 | 67 69 70 72 72 | 99 98 94 92 95 | 73 71 73 72 71 | 96 95 92 93 96 | 72 71 72 73 72 | 94 95 94 91 94 | 70 73 72 74 71 | 97 98 96 93 100 | 66 65 67 65 65 | 91 92 97 97 98 | 70 71 74 75 76 | 92 88 89 91 96 | 76 78 78 79 79 | 93 100 101 103 100 | 67 67 70 70 70 | 100 96 98 98 98 | 70 71 70 73 71 | 92 96 96 97 99 | 72 74 76 76 76 |
| 12 13 14 | | | 96 95 90 86 89 | 66 67 68 67 67 | 95 98 90 94 94 | 70 71 72 66 70 | 93 95 90 88 91 | 70 76 70 69 71 | 99 99 95 97 96 | 69 69 70 68 68 | 99 93 89 92 95 | 72 70 71 67 69 | 96 94 91 94 94 | 72 72 70 68 68 | 93 94 91 92 93 | 73 71 72 69 70 | 100 98 96 96 97 | 67 67 67 67 68 | 95 96 92 90 92 | 63 73 74 70 71 | 91 92 86 88 89 | 78 78 70 74 76 | 102 100 98 94 96 | 71 72 69 68 68 | 98 99 94 94 95 | 70 71 69 67 67 | 87 96 93 92 87 | 75 75 73 72 71 |
| 17 18 19 | | | 84 86 89 86 75 | 68 61 62 63 71 | 85 88 91 94 76 | 74 | 83 85 88 91 77 | 68 62 63 73 68 | 87 91 95 95 78 | 69 62 62 62 62 61 | 85 89 92 94 73 | 69 67 68 70 73 | 88 92 95 91 78 | 69 69 68 69 72 | 87 90 93 94 74 | 71 68 67 68 71 | 91 92 96 97 88 | 68 65 66 65 65 | 88 88 93 93 77 | 67 61 60 65 63 | 85 87 88 85 79 | 74 74 76 77 74 | 89 90 89 96 77 | 67 56 56 57 68 | 90 92 96 94 87 | 69 68 69 73 71 | 85 86 90 93 79 | 68 62 61 65 68 |
| 22 | | | 90 76 | 68 70 69 53 | 87 93 83 76 | 68 69 74 56 | 84 88 77 74 76 | 68 74 61 53 51 | 90 94 80 79 | 68 69 73 56 | 86 90 88 72 74 | 71 74 72 55 50 | 88 91 92 82 82 | 72 76 72 64 55 | 88 89 91 77 80 | 69 70 71 58 52 | 90 93 85 81 80 | 65 66 65 58 52 | 87 88 72 77 79 | 65 68 67 53 | 88 90 88 80 79 | 75 77 72 67 63 | 93 97 72 76 79 | 68 69 71 50 43 | 88 93 97 95 85 | 72 72 70 64 54 | 90 93 78 76 76 | 67 67 62 54 53 |
| 23 24 25 | • | | 73 75 | 52 | 77 | 56 54 | | ł | 79 | 51 | ł | 1 | | l | ŀ | | | | | | i | : | • | | | | | |
| 23 24 25 26 27 28 29 | | | 75 74 67 73 78 | | 77 75 70 72 80 85 | 54 53 51 45 47 50 | 76 74 68 72 76 81 | 51 51 48 46 50 57 | 79 78 71 74 81 86 | 51 50 49 41 42 | 69 65 73 77 80 | 53 49 43 50 53 | 80 72 77 83 86 | 55 56 46 47 47 | 77 73 74 81 84 | 53 51 44 46 47 | \$1 77 78 80 86 | 51 52 45 45 45 45 | 78 72 74 80 85 | 52 50 45 46 47 | 77 73 70 76 80 | 64 61 56 61 63 | 77 71 75 85 86 | 46 45 36 37 41 | 86 81 79 87 88 | 59 55 47 47 50 | 74 70 73 80 85 | 52 50 44 48 55 |